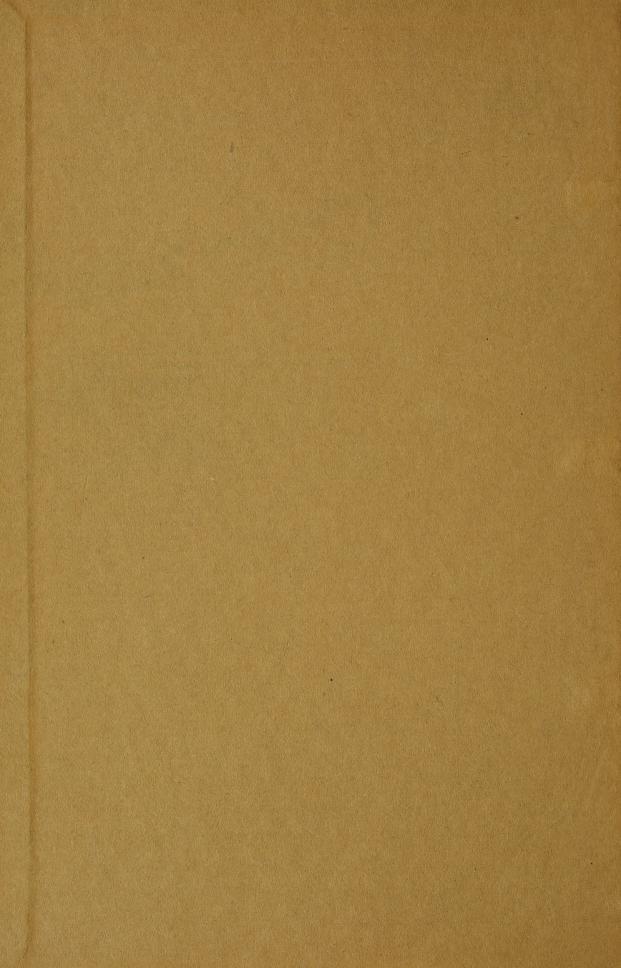
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Asiatic Porns.. and Antlers

Publications of the Indian Museum.

Rs. As.	Ru. Au.
Account of the Deep-sea Brachyura collected by	Catalogue of Moths of India, Parts I to VII. By E. C. Cotes and C. Swinhoe, F.L.S., F.Z.S., etc 5 12
Account of the Deep-sea Madreporaria collected by the R. I. M. S. "Investigator." By A. Alcock,	Echinoderma of the Indian Museum: Account of the Deepsea Holothurioidea collected by the R. I. M. S. "Investigator." By R. Kehler and C. Vaney 16 0
Account of the Triaxon (Hexactinellid) Sponges collected by the R. I. M. S. "Investigator." By F. E. Schulze, Ph.D., M.D 16 0	Echinoderma of the Indian Museum: Shallow-water Holothurioidea collected by the R. I. M. S. "Investigator." By R. Kohler and C. Vaney 2 0
Account of the Alcyonarians collected by the R. I. M. S. "Investigator," Part I. By J. Arthur Thomson, M.A., and W. D. Henderson, M.A., B.Sc. 16 0	Echinoderma of the Indian Museum: Deep-sea Ophiuroidea collected by the R. I. M. S. "Inves- tigator." By R. Kæhler
Aids to the Identification of Rats connected with Plague in India. By W. C. Hossack, M.D 0 8	Echinoderma of the Indian Museum: Shallow-water Ophiuroidea collected by the R. I. M. S. "In- vestigator." By R. Køhler 10
Catalogue of the Archeological Collections in the Indian Museum, Parts I and II. By J. Anderson, M.D., LL.D., F.R.S 4 12	Figures and Descriptions of Nine Species of Squil- lide from the Collection of the Indian Museum.
Catalogue of Coins of the Indian Museum, Parts I to IV. By C. J. Rodgers, M.R.A.S., M.N.S 24 0	By J. Wood-Mason, F.Z.S., etc., edited by A. Alcock, M.B., C.M.Z.S 2 0 Guide to the Zoological Collections exhibited in the
Catalogue of the Coins in the Indian Museum, Calcutta, including the Cabinet of the Asiatic Society of Bengal. Part I.—The Early Foreign Dynasties and the Guptas. Part II.—Ancient Coins of Indian Types. Part III.—Persian,	Bird Gallery of the Indian Museum. By F. Finn, B.A., F.Z.S 012 Guide to the Zoological Collections exhibited in the Fish Gallery of the Indian Museum. By A.
Mediæval, South Indian, and Miscellaneous Coins. By Vincent A. Smith, M.A., F.E.N.S., M.R.A.S., I.C.S., Retd	Alcock, M.B., C.M.Z.S 0 8 Guide to the Zoological Collections exhibited in the Invertebrate Gallery of the Indian Museum. By A. Alcock, M.B., C.M.Z.S. (Out of print.)
Oatalogue of Indian Crustacea. Part I.—Introduc- tion and Brachyura Primigenia. By A. Alcock, M.B., LL.D., F.R.S	Guide to the Zoological Collection exhibited in the Reptile and Amphibia Gallery of the Indian Museum. By A. Alcock, M.B., C.M.Z.S. (Out of
Catalogue of the Indian Decapod Crustacea. Part II.—Anomura. Fasciculus I.—Pagurides. By A. Alcock, M.B., LL.D., F.R.S., C.I.E 14 0	print.) Hand List of Mollusca in the Indian Museum, Parts I and II, and Fasciculus E. By G. Nevill,
Catalogue of the Indian Decapod Crustacea: Part III.—Macrura. Fasciculus I.—The Prawns of the Peneus Group. By A. Alcock, M.B., LL.D.,	C.M.z.s., etc. Index, Parts I and II. By W. Theobold 7 4
F.R.S., C.LE 7 0	List of Batrachia in the Indian Museum. By W. L. Sclater, M.A., F.Z.S 1 0
Oatalogue of Indian Deep-sea Crustacea: Decapoda Macrura and Anomala in the Indian Museum, By A. Alcock, M.E., LL.D., C.M.Z.S 10 0	List of Birds in the Indian Museum. Part I.— Corvidæ, Paradiseidæ, Ptilonorhynchidæ and Crateropodidæ. By F. Finn, B.A., F.Z.S 1 0
Catalogue of Indian Deep-sea Fishes in the Indian Museum. By A. Alcock, M.B., C.M.Z.S 5 0	List of Snakes in the Indian Museum. By W. L. Sclater, M.A., F.Z.S 10
Oatalogue of Mammalia in the Indian Museum, Part I. By J. Anderson, M.D., LL.D., F.R.S. Part II. By W. L. Sclater, M.A., F.Z.S 6 0	Monograph of the Asiatic Chiroptera and Catalogue of the Species of Bats in the Indian Museum. By G. E. Dobson, M.A., M.B., F.R.S 3 0
Catalogue of Mantodea in the Indian Museum, Parts I and II. By J. Wood-Mason, F.Z.S., etc 2 0	Monograph of the Oriental Cicadidæ, Parte I to VII. By W. L. Distant, F.E.S 31 14
The above can be obtained from the Superintenden	it of the Indian Museum, Calcutta, and from Mesers.

The above can be obtained from the Superintendent of the Indian Museum, Calcutta, and from Messre. Friedlander & Sohn, 11, Carlstrasse, Berlin.

Other Publications edited and sold by the Superintendent of the Indian Museum (also obtainable from Messrs. Friedlander & Sohn) issued by the Director of the Royal Indian Marine.

Illustrations of the Zoology of the R. I. M. S. "Investigator," 1892. Fishes, Plates I to VII. Crustacea, Plates I to V, 1894. Fishes, Plates VII to XIII. Crustacea, Plates VI to VIII. Echinoderma, Plates I to III, 1895. Echinoderma, Plates IV and V. Fishes, Plates XIV to XVI. Crustacea, Plates IX to XV, 1896. Crustacea, Plates XVII to XXVII, 1897. Fishes, Plate XVII. Crustacea, Plates XXVIII to XXXII. Mollusca, Plates I to VI, 1898. Fishes, Plates XVIII to XXIV. Crustacea, Plates XXXIII to XXXV. Mollusca, Plates VII and VIII, 1899. Fishes, Plates XXV and XXVI. Crustacea, Plates XXXVI to XLV, -900. Fishes, Plates XXVII to XXXV. Crustacea, Plates XLVI to XLVIII. Index, Part I, 1901. Crustacea, Plates XLIX to LV. Mollusca, Plates IX to XIII, 1902. Crustacea, Plates LVI to LXVII. Crustacea, Plates LXVIII to LXXVI. Fishes, Plates XXXVII to XXXVIII, 1905. Crustacea (Malacostraca), Plates LXXVII to LXXIX. Crustacea (Entomostraca), Plates I and II. Mollusca, Plates XIV to XVIII, 1907.—Re. 1 per plate.

942 15X NZP

AN ILLUSTRATED CATALOGUE

OF THE

ASIATIC HORNS AND ANTLERS

IN THE COLLECTION OF THE

INDIAN MUSEUM.

BY

T. BENTHAM.



CALCUTTA:

Published by order of the Trustees and sold by the Superintendent, Indian Museum, Natural History Section.

1908.

PRICE TWO RUPEES.

CALCUTTA:

PRINTED BY THACKER, SPINK AND CO

599.71 , <u>F</u>39

PREFACE.

My object in asking Mr. Bentham to prepare this catalogue of the horns and antlers in the collection of the Indian Museum and recommending its publication to the Trustees has been twofold. In the first place, a catalogue of the kind seemed likely to be of use to sportsmen, who frequently write to the Museum for information regarding horns and antlers, and in the second I thought that it might serve as an appeal to those in a position to help the Museum by giving us specimens. The greater part of our collection of Mammals consists of the gifts of naturalists and sportsmen of a bygone generation; it is now rare for us to obtain specimens of the Ungulates except by purchase from dealers. Assistance given us increases our power of assisting the amateur, and we are often placed in the somewhat ridiculous position of being unable to answer inquiries about some common animal, simply because we cannot refer to specimens so common that no one has taken the trouble to collect them. The exact distribution of many of the Indian species is still unknown, and can only be properly investigated by the examination of large numbers of examples from a large number of localities.

As this work is intended primarily for sportsmen and field naturalists, although I trust that it will not prove devoid of interest even to museum zoologists, measurements are given in inches and tenths of inches instead of centimetres and millimetres; but a table for converting the one into the other is given at the end of Mr. Bentham's introductory note. There are other "anachronisms," for which I must accept the responsibility and as regards which adverse criticism must be expected. No attempt has been made to bring the nomenclature of the Ungulates "up to date." In the babel of names that now rages round many of the common animals the safest course to take has seemed to me, in the circumstances, to adopt, without deviation therefrom, the nomenclature of some standard work readily accessible to naturalists. I have therefore recommended Mr. Bentham to follow that of the late Dr. W. T. Blanford's volume on the Mammals in the "Fauna of British India and Ceylon." No great difficulty has been experienced in bringing the nomenclature of extra-Indian Ungulates represented in the collection (to which Dr. Blanford himself contributed so large a share) into harmony with that of this invaluable work. I have also advised Mr. Bentham to ignore many of the "species," "sub-species" and "varieties" into which some of the common Mammals have recently been divided. Some of these

"species," etc., are merely revivals from the classification of a less scientific age, many are founded on imperfect evidence and are due rather to a theory that animals must vary locally than to the examination of a sufficient number of specimens; even in the few cases in which a large number of examples of each species from a large number of localities have been examined, the student of human nature plus zoology may doubt whether it is beneficial to the study of the latter that minute differences should be recognized by the giving of new names to which their author can append his own in perpetuity. The term "blanket name" has recently been coined by those who believe in the system of multiplying species indefinitely, to mean names (such as Mus rattus and Nemorhædus sumatraensis), which they regard as representing not single species but groups of allied forms. The names used in this catalogue are in many cases "blanket names."

With this qualification, the collection of horns and antlers in the Museum is nearly complete so far as the Fauna of the Indian Empire is concerned, while numerous heads of interesting species from other Oriental countries are also included. Of the species recognized by Blanford as Indian only Fea's Barking-deer (Cervulus fea) is not represented. It has, therefore, been possible to give photographs of the horns or antlers of all the Indian Cervidæ and Bovidæ but one. Care has been taken to choose well-developed horns of known provénance whenever possible. Such photographs may not be devoid of value even in the eyes of those who regard "blanket names" with contempt.

N. ANNANDALE,

Superintendent, Indian Museum.

CALCUTTA,
August 23rd, 1908.

INTRODUCTION.

In 1890 Mr. Sclater, then Deputy Superintendent of the Indian Museum, wrote the second part of the Catalogue of Mammals contained in this institution. This volume contains an account of the Bovidæ and Cervidæ, with which the present work also is concerned. It does not, however, go into the measurements of the skulls and horns of these two groups. I have therefore been asked by the Superintendent, Dr. N. Annandale, to prepare a catalogue giving measurements of the fine collection of horns of Asiatic Ungulates exhibited on the walls of the Mammal gallery, so that the book might be of use to sportsmen and others. This has accordingly been done, some 450 specimens having been measured.

Most of the species are found within Indian limits. All are found within the Oriental Region with the exception of two or three species from Palæarctic Asia, from which continent all the specimens here described have been obtained. The European, American and African collection is too small and incomplete for special notice.

The collection contains two types, both of species which, unfortunately, do not occur in Indian limits. There are several records, notably a specimen of Budorcas taxicolor from the Mishmi Hills and a specimen of Nemorhadus sumatraensis presented by Col. Phayre. There are two records of Bos frontalis, but it is difficult to know whether these are pure bred or hybrids, since there is very little history attached to them, besides which it has long been disputed as to whether Bos frontalis occurs wild in Indian limits. Several authors take it that this species is identical with Bos gaurus.

The specific identity of Ovis cycloceros and Ovis vignei has now been more or less fully established and they are therefore included under one species, viz., Ovis vignei.

T. BENTHAM.

NOTICE CONCERNING MEASUREMENTS, etc.

Length is in inches.

The length of horns is in all cases measured along the outside curve, in deer above the burr.

Circumference is measured at base of horn, in deer above the first tine.

All horns with a core have a tendency to shrink when kept for some years.

Note.—The numbers on the plates refer to the serial numbers in the tables.

TABLE FOR CONVERTING INCHES INTO CENTIMETRES

Inches.	Centimetres.	Inches.	Centimetres.	Inches.	Centimetres.
·06 ·125 ·25	·15 ·3 ·6	2·5 3 3·5	6·25 7·5 8·75	7·5 8 8·5	18.75 20 21.25
625 66	1·25 2·1 1·66	4 4.5 5	10 11·25 12·5	9 9·5 10	22·5 23·75 25
·875 1 1· 5 2	2·2 2·5 3·75	5·5 6 6·5	$ \begin{array}{c c} 13.75 \\ 15 \\ 16.25 \\ 17.5 \end{array} $	10.5 11 11.5 12	26·25 27·5 28·77 30

ERRATUM.

Page 35, below plate. For "th scale" read "th scale."

BOS GAURUS, Hamilton Smith.

(THE GAOUR OR "BISON.")

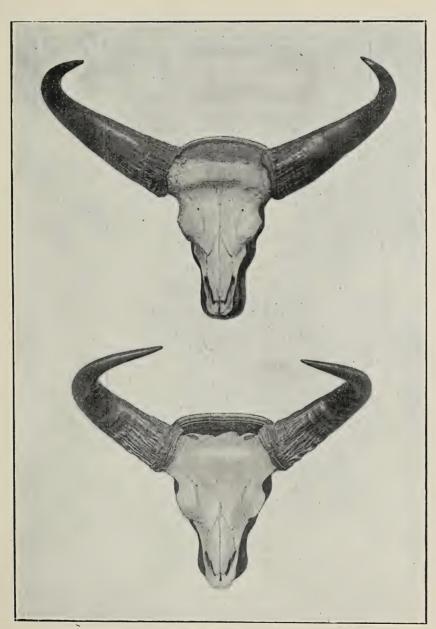
No.	Sex.	Locality.	Donor.	Date.	Basal length	Breadth of	Length of		Tip to tip.
					or skull.		norn.	ence at base.	
	10	i	W. T. Blanford	1868	61	8.5	20	10.5	4.7
63	0+	Assam	Col. Jenkins	1844	19.5	6	19	12.4	12.7
CO.	10			∞.	19.5	eo •∞	15.5	10.8	6
4	* ∕0	Chaibassa	Maj. Tickell		20	6	8.22	15.3	27
Ŋ	*0	Gauhati, Assam	Maj. Pollock	1870	21.9	10.3	19.4	11.2	13.8
9	60	Malacca	Dr. Maingay		∞.	ο.	23.4	17	50.6
2	6	Burma	Col. Phayre	1881	2.	~.	32	18	22
∞	₩	Gauhati, Assam	Maj. Pollock	1870	19.05	œ	20.5	13	20.25
6	*∕	2.	Col. Guthrie	1862	19.75	10	· ·	~.	~.
10	0+	Aşsam Hills	Col. Jenkins	1848	20.2	11.75	· ·	·	∞.
11	*0	Chittagong	J. A. Campbell	1879	· ~·	~.	19.75	1.2	5.5
12	₩	Ditto	Ditto	1879	19.75	10	31.5	19	15.75
67	₩	Ditto	Ditto	1879	٥٠	:	21	14	21.5
14	₩	0.	Purchased	1847	19.5	10.5	29.25	16.5	20.75
15	₩	Chittagong HillTracts	J. T. Jarbo	1881	~.	~.	22.75	12.75	6.75

Distribution:—The peninsula of India, in forest tracts, from the Vindhyan Hills along the north of the Nerbudda (Jerdon); southward through Kandeish and the Western Ghats to Tinnevelly (Elliot); eastward through the Central Provinces and Chota Nagpore almost to Midnapore (Jerdon); the Nepal Terai (Hodgson); Assam; Tipperah and Chittagong Hills; southwards through Burma (Blyth); to Malay Peninsula (Cantor and Maingay), but not recorded from any of the islands; Ceylon.

Record Head: -Length 46 in. Circumference 20.5 in. Tip to tip 33 in. From Malay States. (Cf. Lydekker, Game Animals of India, etc., p. 56.)

Cf. Blanford, Fauna of British India, Mammalia, p. 484.





Bos gaurus, $\frac{1}{10}$ th scale.

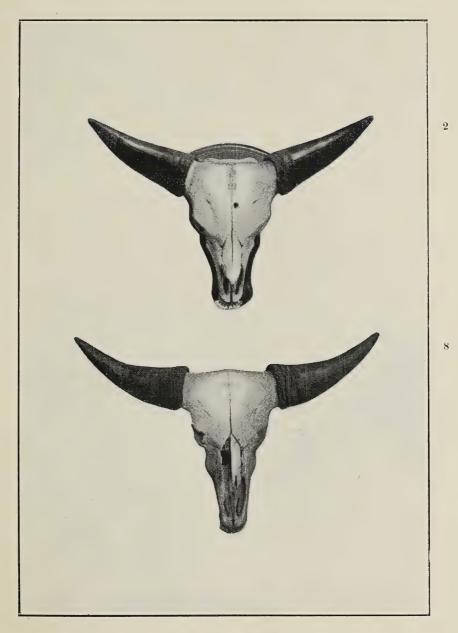
BOS FRONTALIS, Lambert.

(THE GAYAL OR MITHAN.)

Tip to tip.	24 13.5 28 13.75 32 38.25 Hybrid." "Pure bred."
Circumfer- ence at base.	14.75 14.75 13.5 13.5 15.75
Length of horn.	22 15 10.75 14.5 18.5 17.25 18.25*
Basal length Breadth of of skull.	10 9.5 8 8 8.75 9 8.25
Basal length of skull.	20.5 17.75 18.5 17.5 19.25
Date.	1879 1850 ", 1850 1857 1893
Donor.	Tracts J. T. Jarbo R. W. Frith Ditto Ditto Ditto Calcutta Zool. Gardens, E. Blyth. Calcutta Zool. Gardens, E. Blyth. Calcutta Zool. Gardens.
Locality.	Chittagong Hill Tracts Chittagong Ditto Ditto Ditto
Sex.	of Juv.
No.	H 03 00 4 10 00 1

Distribution:—Akyab northwards through Arakan and the Chittagong Hills; through Tipperah and Manipur to the Naga Hills; Daffla Hills.

Cf. Blanford, Fauna of British India, Mammalia, p. 487.



Bos frontalis, $\frac{1}{10}$ th scale.

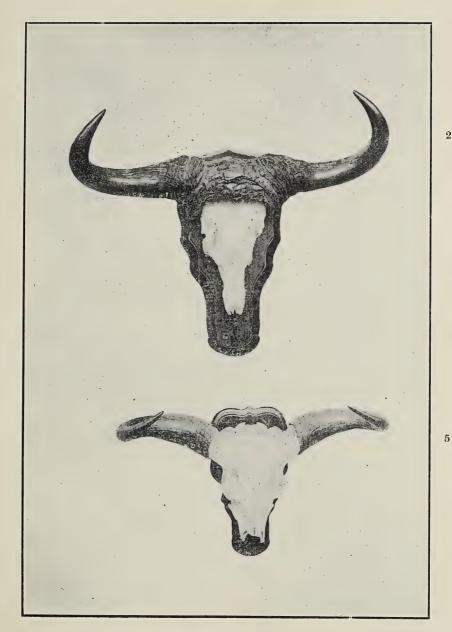
BOS SONDAIGUS, Schlegel.

(THE BANTING.)

Tip to tip.	15.5	30	19.5	22.75 "Hybrid"
Circumfer- ence.	. 16	21.5	12.5	67
Length of horn.	23.5	*18	21.5	36.5
Breadth of skull.	2	8.	8 6.25	8.5
Basallength Breadth of Length of skull.	8.	8.	18.75	· ·
Date.	1837	1844	1849	1850
Donor.	Prince of the	The Batavian	Col. Phayre Zool. Gardens	•
Locality.	Burma	Јаvа	Upper Pegu Burma	Upper Pegu
Sex.	₩	₩	10 °C	160
No.	-	7	ധ <i>മ</i>	5

Distribution:—Arakan through Burma and the Malay Peninsula; Java, Bali, and Borneo. Cf. Blanford, Fauna of British India, Mammalia, p. 489.

* Record



Bos sondaicus, $\frac{1}{12}$ th scale.

BOS GRUNNIENS, Linnæus.

(THE YAK.)

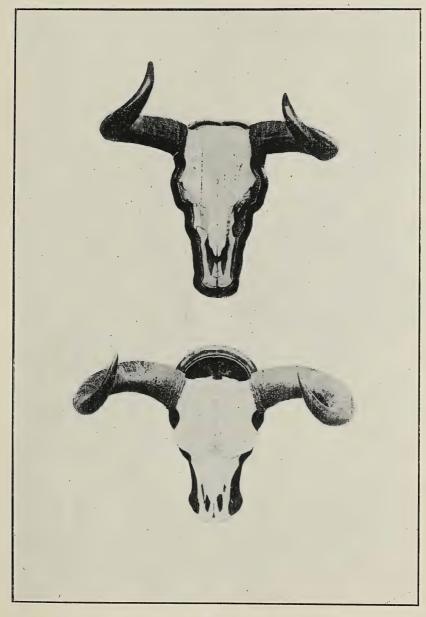
							1		
No	Sex.	Locality.	Donor.	Date.	Basal length of skull	Breadth of skull.	Breadth of Length of skull.	Circumfer- ence.	Tip to tip.
	:	"Almora District"	Purchased	1892	69.61	8.75	24.3	11.75	11.5
37	:	Tibet	LtCol. J. Fraser	1892	22.8	2.11	31.5	15	17.3
က	:	Chang Chenmo	W. Rutledge	1894	21.5	Ţ	33.4	91	21.25
4	:	:) :	1862	~.	2.	26.75	11.8	18.75
5	:	Rondur, Tibet	Purchased (Row-	1905	~	2.	30.5	15.75	25.52
9	÷	Bhutan	land Ward). Capt. E. Smyth	1897	21.75	10.5	30.5	14.5	17.3
- 1									

Distribution:—The hill ranges of Central Asia, never below 6,000 feet.

Record Head:—Length 39 in. Lucknow Museum (cf. Lydekker, Game Animals of India, etc., p. 79).

Cf. Blanford, Fauna of British India, Mammalia, p. 490.





Bos grunniens, $\frac{1}{11}$ th scale

BOS BUBALUS, Linnæus.

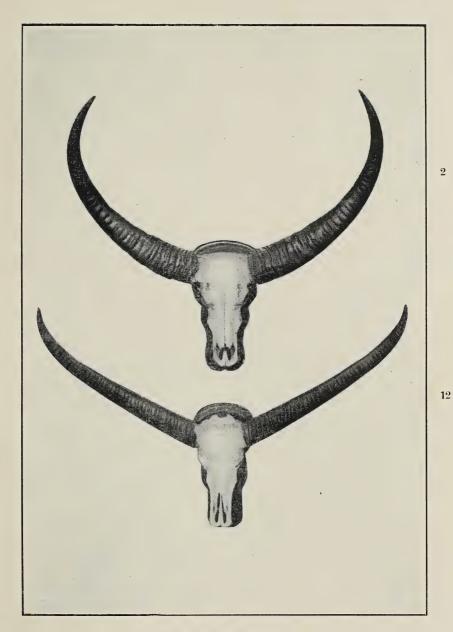
(THE INDIAN BUFFALO.)

Tip to tip.	33.5	48.75	40	25.75	17	27.4	17.25	23.5	46.15	19.5	23.5	72	30	45.5	40.5
Circumfer- ence.	16.75	16	18.5	16.5	9.91	18.5	12.5	9.81	19.5	17.75	13.5	12.75	12.5	13.4	18.25
Length of horn.	48.3	49	42.5	35.8	43	31	25.8	41.3	40.25	40.25	52.4	46.6	52.75	47.75	53.75
Breadth of skull.	6	Ô	'n	8.5	2.2	6	6.75	2.72	:	8.5	7.75	7.5	7.25	8.5	9.25
Basal length of skull.	22.5	24	24.5	21.5	23	24.5	21.75	23.3	:	22.25	21.75	24.8	22.5	23.8	24
Date.	1879	1816	1848	1848	1848	~.	2.	1856	:	1877	1859	1860	1860	1860	1860
	:	:	:	:	•			:		:	:	:	:	:	:
Donor.	J. Hamilton	Dr. Wallich	Maj. Brodie	Ditto	Ditto	~	∞.	Sir J. Barlow	::	Col. Graham	Dr. Mouat	Dr. Wallich	Ditto	Ditto	Ditto
Locality. Donor.	Kaliabar, Central J. Hamilton	:: u	:	Ditto Ditto	i Ditto	2		Dibrugarh, Assam Sir J. Barlow		Assam (Assam Dr. Mouat	:	Ditto Ditto	Ditto Ditto	Ditto Ditto
	, Central	:: u			δ i Ditto	2.		:		Sadiya, Assam	Assam	Ditto	· :	9 Ditto Ditto	Ditto

Distribution:—Southward from the Ganges to the Godavery; westward to Mundla; the Nepal Terai; Purneah; the Sunderbunds and the valley of the Brahmaputra.

Record Head:—One horn, length 77\frac{3}{2} in. British Museum (cf. Rowland Ward, Horn Measurements, p. 223).

Cf. Blanford, Fauna of British India, Mammalia, p. 491.



Bos bubalus, 18th scale.

OVIS HODGSONI, Blyth.

(GREAT TIBETAN SHEEP OR "OVIS AMMON.")

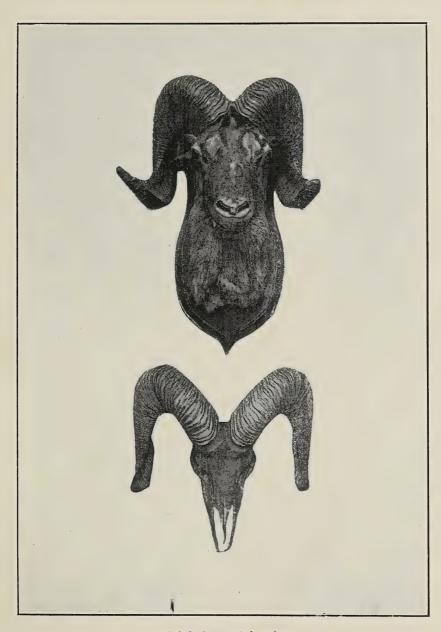
No.	Sex.	Locality.	Donor,	Year.	Basal length of skull.	Breadth of skull.	Breadth of Length of skull.	Circum- ference.	Tip to tip.
-	K	"Cacher"	C T Inshinaton	1069	10.0	20.9	4.1	16	7
- 67	0 %	: :	Ditto	1862	0 01	620	41	91	18.75
ಣ) * C	Ditto	Ditto	1862	~:	~.	33.25	16.75	21.25
4	, * ` ∕	Nepal region	Capt. Mitchell	. ~ .	13	7	33.5	17	1.5
C	, * ∕0	Tibet	Capt. Smyth	1862	13	6.55	31.75	91	2.91
9	100	"Cachar"	T. Lushington	1862	:	:	41	17.25	21.5
_	~	Ditto	Ditto	1862	14.25	9	24.25	13.25	20.5
∞	. KO	· ·	:	0.	13.5	6.25	28.75	17.5	20.75
6	~		Furchased	1897	14	6.9	38	. 91	21
10	*	· · ·	Ditto .	1897	14	8 9	43.5	16	. 20
1	₩	Chang Chenmo, Ladak	S J. Stone	1888	~.	2.	36.75	16	20.52

Distribution:—North of the snowy range of Himalayas; Ladak to the country north of Sikhim, altitude 12,000 to 15,000 ft.; E. Siberia.

Record Head:—Length 57 in. Circumference 18\frac{3}{4} in. Tip to tip 29 in. (cf. Lydekker, Game Animals of

India, etc., p. 97).

Cf. Blanford, Fauna of British India, Mammalia, p. 494.



Ovis hodgsoni, $\frac{1}{10}$ th scale.

0

OVIS POLI, Blyth.

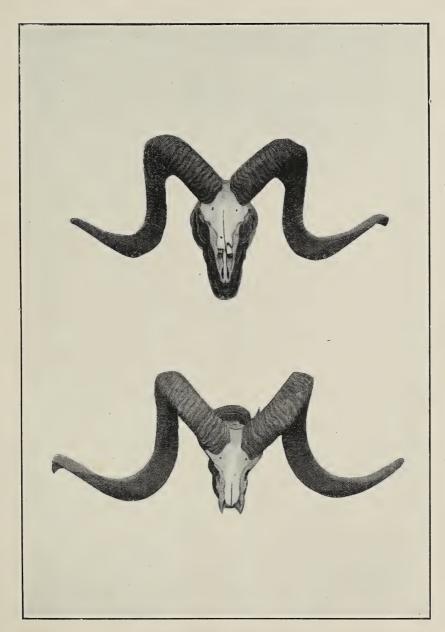
(MARCO POLO'S SHEEP.)

No.	Sex.	Locality.	Donor.	Year.	Basal length of skull.	Breadth of skull.	Length of horn.	Circumfer- ence.	Tip to tip.
	*	Noor Kashoar	Dr. F. Stoliczka	1877	8.	ũ	18.75	10.75	18.5
4 6:	O *4	Ditto	Ditto	1877	10.75	2.6	23.5	11	22.8
1 00) [*] {	aluchistan.	E. J. Jones	:	13.25	6.25	42.5	12.75	32
) 4) ^K Y	Taodanbash Pamir	W. A. Lockhart	1886	15	9	56	15	44
H 7C) ^K (Hunza	Col. Biddulph	1879	÷	9	89	16	52.5
9	o 0	Thian Shan Mts	Dr. F. Stoliczka	1874	:	÷	12.25	2.42	15.25
4 0	+	Little Pamir	Lieut. Ossetinsky	1896	∞.	~:	5.1.5	15.5	47.25
<u> </u>	F-4	Ditto	Ditto	1896	∞ ∙	٥٠.	22	10	21.75
0 0	o 0		Ditto	1896	%	٥.	9.75	4.5	14.25
10	+ 0		Capt. E. F.	1896	~ ·	· ~·	13.5	6.55	14.75
			McSwiney.			,			,
	**	Near Kashgar	Dr. F. Stoliczka	1877	۵۰	∞.	35	12	7 8
12.	150	Ditto	Ditto	1877	· ·	۰۰	ි ගෙ	12.5	- R

Distribution:—The Pamir; Thian Shan Range; round Lake Issya; Eastern Turkestan to the Altai; Shim Shal Pamir; Hunza, N. Gilgit,

Record Head:—Length 75 in. Circumference 16 in. Tip to tip 54½ in. (cf. Rowland Ward, Horn Measurements, p. 194).

Cf. Blanford, Fauna of British India, Mammalia, p. 496.



Ovis poli, $\frac{1}{18}$ th scale.

OVIS VIGNEI, Blyth.

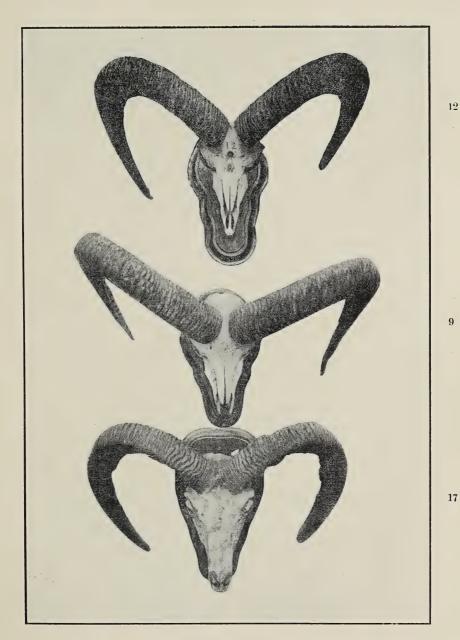
(URIAL OR SHAPOO.)

Denois
5
Capt. J. Manners-Smith.
Genl. Lumsden
W. T. Blanford
H. Duvergne
.)
W. Theobal
W. T. Blanford
Purchased
W. T. Blanford
П
J. E. T. Aitchison
E. J. Jones

Distribution:—Punjab Salt Range; Suleiman Range; Afghanistan and Baluchistan; Nepal; Ladak and Western Tibet at high elevations; Persia.

Record Head:—Length 39.5 in. Circumference 11 in. (cf. Lydekker, Game Animals of India, etc., p. 104).

Cf. Blanford, Fanna of British India, Mammalia, p. 497.



Ovis vignei, $\frac{1}{10}$ th scale.

OVIS NAHURA, Gray.

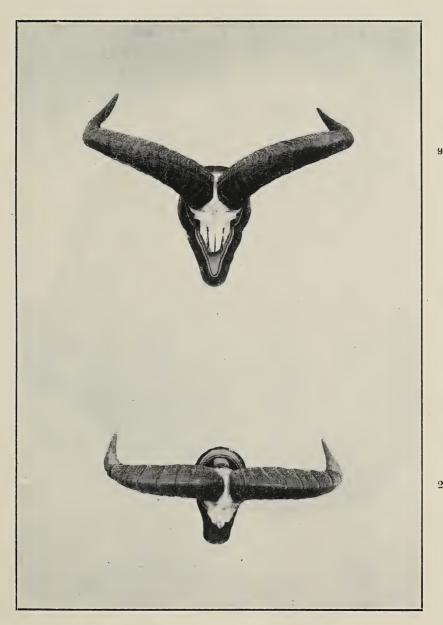
(THE BHARAL.)

um- nce. Tip to tip.	75 16	62	.75 19				5 23		5 10.25		25 4.5	2. 27	.5 27
th of Circum- ference.		24.5 10.	15 8.75	28.25 10.			_	8.5	22	32 12.	4.25 4.25	22.75 10.2	3 11.5
th of Length of horn.	? 23	<u>.</u>		4.5		3.25	3 18	~.		, ,	3.75	4	4.5 23
Basal length Breadth of of skull.	2.	0.5	2.	∞		0	e.	· ·	~	~.	~.	~.	~.
Year, Basal of	1860	1 0981	1860	1874		1860	· ·	~·	· ~·	0.	2.	888	8881
				_		_			-				
		:	:	zka		:			:			:	:
Donor,	Capt. Smyth		Ditto	Dr. F. Stoliczka	7	Capt. Smyth	2.	~.	Purchased	~	2.	S. J. Stone	Ditto
Locality. Donor.	Himalayas Capt. Smyth		Ditto	Val- Dr.	n-lun Mts.	Himalayas Capt. Smyth		2	i Purchased	Himalayas	`	okh-la Pass, S. J. Stone	Ditto
	:		Ditto	Val- Dr.	Mts.	:		2.	Furchased		`	Sang-Jokh-la Pass, S. J. Stone	Ditto

Distribution:—The whole of the Himalayas, from Ladak to Sikhim; the Kuen-lun Range and the Altyn Tagh; Moupin, E. Tibet.

Record Head:—Length 32.5 in. (cf. Lydekker, Game Animals of India, etc., p. 160).

Cf. Blanford, Fauna of British India, Mammalia, p. 499.



Ovis nahura, $\frac{1}{10}$ th scale.

CAPRA ÆGAGRUS, Gmelin.

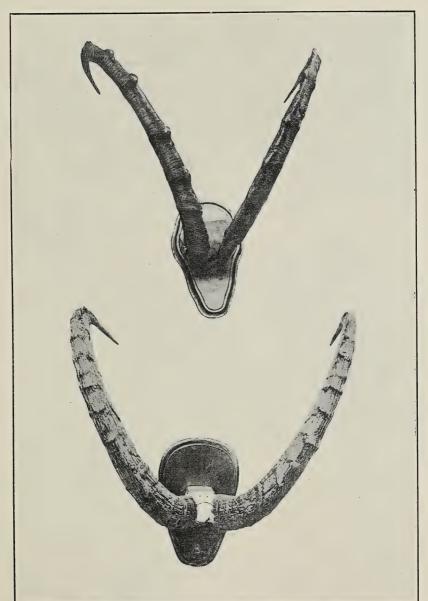
(THE PERSIAN IBEX.)

r- Tip to tip.	6 7.5 9 14.75 112.25 111.5 24.25 25.5 21.5
Circumfer- ence.	4 4 7 7 7 4 4 7 7 7 4 4 7 7 7 8 8 9 9 8 9 9 9 9 9 9 9 9 9 9 9 9
Length of horn.	11.5 13 35.25 39.75 31.75 31.25 43.3 14.25 34.5
Breadth of skull.	6. 6. 4. 4. 5. 5. 5. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6.
Basal length of skull,	9.5
Year.	1875 1875 1886 1879 1879 1886 1876 1876
Donor,	Shaik Harri W. T. Blanford Sir O. B. St. John. Karachi Mus Sir A. Burnes Karachi Mus Sir O. B. St. John A. E. Watson, Esq. Ditto Persian Collection
Locality.	Ispahan, Persia Sind Sind Afghanistan Sind Near Shiraz Sind Ditto
Sex.	\$ 6000000000000000000000000000000000000
No.	10 10 11 11

Distribution:—Persia, Afghanistan and Baluchistan; the Pubb and Suleiman Ranges; Asia Minor and the Caucasus; the Greek Archipelago.

Record Head:—Length 53 in. Circumference 7.6 in. Tip to tip 8.75 in. (cf. Lydekker, Game Animals of India, etc., p. 112, and Rowland Ward, Horn Measurements, p. 148).

Cf. Blanford, Fauna of British India, Mammalia, p. 502.



Capra ægagrus, $\frac{1}{12}$ th scale.

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CAPRA SIBIRICA, Mayer.

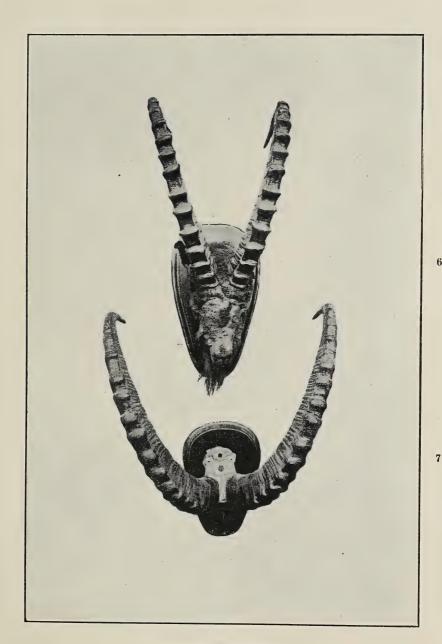
(KASHMIR AND TIBET IBEX.)

Tip to tip.	10.25 10.5 9.25 14.5 13.25 19.25 19.25 13.25
Circum- ference.	9.3 9.25 9.5 8.75 9.5 10.25 11.75 10.25
Length of horn.	19 21.75 34.75 30.5 31.75 33.25 46.5 37.75
Breadth of skull.	4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Basal length of skull.	9.75 8.75 8.75 10.25 11.25 13.5 8
Year.	1871 1871 1874 1874 1874 1874 1879
Donor.	Purchased Ditto Dr. F. Stoliczka Purchased Dr. F. Stoliczka Ditto S. J. Stone Dr. F. Stoliczka N. Elias
	Purchased Ditto Dr. F. Sto Purchased Dr. F. Sto Ditto S. J. Ston Dr. F. Sto N. Flias
Locality.	Purcha Purcha Purcha Purcha Puttan Shan Mts. Purcha Purcha
Sex. Locality.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$

Distribution:—The Himalayas from the Gilgit district (Scully), eastward to Nepal, but not east of Nepal; also the higher ranges of Tibet (Hodgson), the Thian Shan (Severtzoff) and the Altai and Sajan Ranges, but not extending east of Ladak (Radda).

Record Head:—Length 57.4 in. (cf. Lydekker, Game Animals of India, etc., p. 120).

Cf. Blanford, Fauna of British India, Mammalia, p. 503.



Capra sibirica, 1th scale.

CAPRA FALCONERI, Hugel.

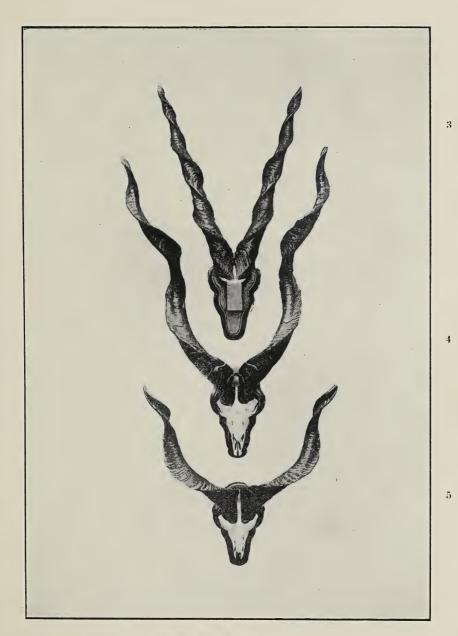
(THE MARKHOR.)

Tip to tip.	13.75 15.25 15.5 25.5 25 21.5 25.5 34 37.75 One horn 3.6
Circumfer- ence.	9.5 9.5 11.25 10.75 10.5 9 11.75 11.75 10.25 3.4
Length of horn.	2002 23244 32475 3002 3002 3002 3002 3002 3002 3002 300
Breadth of skull.	
Basallength of skull.	10 ? ? 12.25 11.75 10.75 9.75 ? ? ? ? ? ? ? ? ? ? ? ? ?
Year.	1879 1878 1891 1884 1879 1884 1900 1900
Donor.	W. T. Blanford W. Theobald S. J. Stone Ditto W. T. Blanford Ditto S. J. Stone Capt. J. Manners-Smith. Sir A. Burnes Capt. J. Manners-Smith.
Locality.	Gilgit Kashmir Baluchistan Bunji Gilgit Cilgit Bunji Gilgit Gilgit Cilgit
×	And
No.	

Distribution:—Afghanistan and the Tibetan Himalayas; the Pir Panjal in Kashmir; the Himalayas from Gilgit to the Beas River; the Suleiman Range; Ladak.

Record Head:—Length 63 in. (cf. Lydekker, Game Animals of India, etc., p. 126).

Cf. Blanford, Fauna of British India, Mammalia, p. 505.



Capra falconeri, 10th scale.

HEMITRAGUS JEMLAIGUS, Smith.

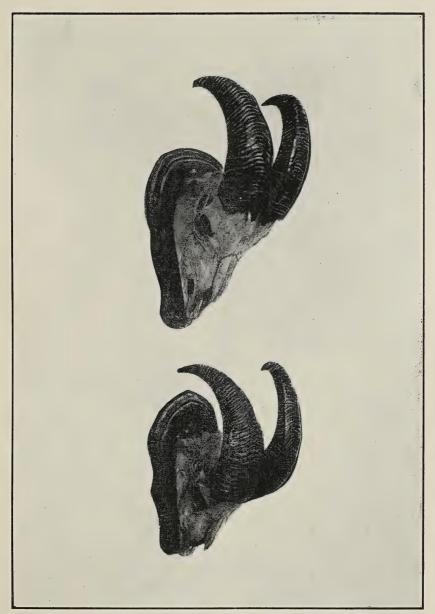
(JHARAL OR TEHR.)

No. Sex.	Locality.	Donor.	Year	Basal length Breadth of of skull.	Breadth of skull.	Length of horn.	Circumfer- ence.	Tip to tip.
NZ HH FOFOFOFOFOFO	Nepal Near Mussoorie Pir Panjal, S. Slope Himalayas Ditto Ditto Ditto Ditto	Miss Millman Capt. Smyth N. Elias Dr. T. C. Jerdon B. H. Hodgson Ditto	2 1873 1862 1879 1888 1844 1844 1844	2 11.25 8.5 8.5 10 10.75	4.25 4.5 6.7 4.75 6.8 8.8 8.8	7.75 12.75 9.75 9.5 12 10.5 13 10.5	7.7.5 7.7.5 7.7.5 7.5.5 8.3 8.3 8.3	6.25 6.25 4.75 6.75 6.6

Distribution:—The whole of the Himalayas from 6,000 ft. upwards.

Record Head:—Length 15·5 in. Circumference 8·25 in. (cf. Lydekker, Game Animals of India, etc., p. 135).

Cf. Blanford, Fauna of British India, Mammalia, p. 509.



Hemitragus jemlaicus, †th scale.

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HEMITRAGUS HYLOCRIUS, Blyth.

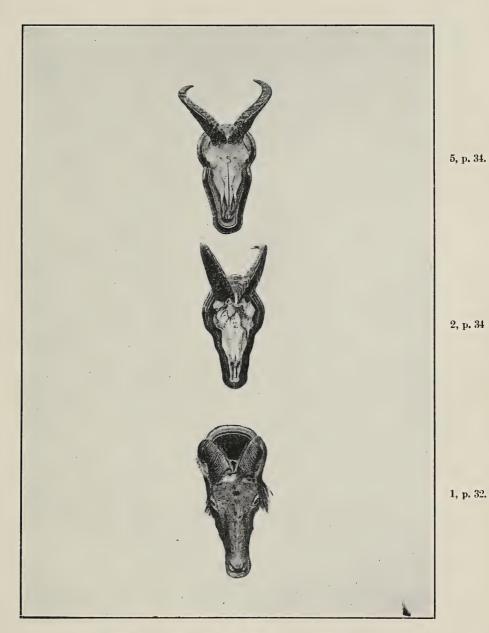
(THE NILGIRI WILD GOAT.)

Tip to tip.	3.25 4.25 3.25 6.75 4.5 5.75
Circumfer- ence.	8 8 8 9 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Breadth of Length of horn.	8 :25 9 :7 5 1 15 :7 5 1 13 ·8
Breadth of skull.	6 6 6 6 7 7 7 6 7 6 7 6 7 6 7 6 7 6 7 6
Basal length of skull,	8.5 9 10 9.75 9.5
Year.	 1889
Donor.	Madras Museum Dr. T. C. Jerdon L. C. Stewart Rev. J. Baker A. W. Turner
Locality. Donor.	Nilgiri Hills Dr. T. C. Jerdon S. Malabar Dr. T. C. Jerdon Nilgiri Hills E. C. Stewart Travancore Rev. J. Baker Deviculam, Travan- A. W. Turner core. Nilgiri Hills Madras Museum
	 Travan-

Distribution:—The Nilgiris and Western Ghats of Cochin and Travancore.

Record Head:—Length 17.5 in. Circumference 9.85 in. (cf. Lydokker, Game Animals of India, etc., p. 138).

Cf. Blanford, Fauna of British India, Mammalia, p. 511.



Hemitragus hylocrius, and H. jemlaicus, $\frac{1}{7}$ th scale.

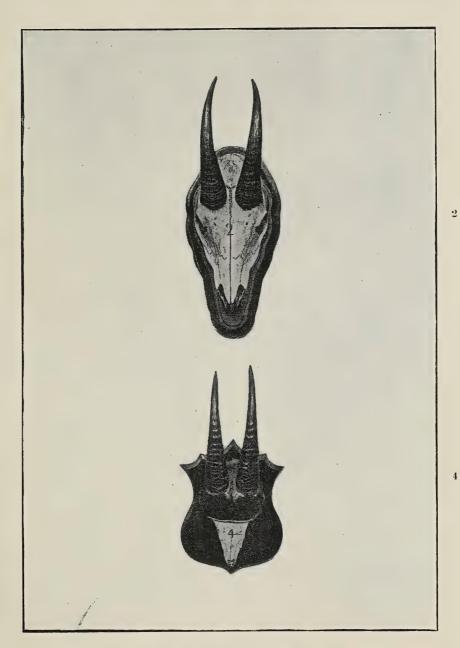
NEMORHÆDUS BUBALINA, Hodgson.

(THE SEROW.)

Tip to tip.	2.4.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2
Circumfer- ence.	70 70 70 70 44 70 70 70 70
Length of Circumfer-horn.	7.6 7.5 7.7 7.75
Basal length Breadth of skull.	
Basal length of skull.	111.3 7.75 ? ?
Year.	1877 1868 1868 1868 1868
Donor.	L. Mandelli Yunnan Collection J. Anderson Ditto Ditto L. Mandelli
Locality.	Sikhim Sanda Valley, Yunnan Ditto Ditto Ditto Sikhim
Sex.	6060606060
No.	100409

Distribution:—The Himalayas from Kashmir to the Mishmi Hills; obtained by Anderson in Yunnan. Record Head:—Length 13:5 in. Circumference 8:75 in.

Cf. Blanford, Fauna of British India, Mammalia, p. 514, and Pocock, P. Z. S., 1908, p. 173.



Nemorhadus bubalina, 5th scale.

NEMORHÆDUS GORAL, Hodgson.

(THE GORAL.)

Tip to tip.	4 1.75 3 2.75 1.8 2.75 2.75
Circumfer- ence.	25.55 25.55 25.55 25.55 25.55
Length of horn.	7 4.75 5.75 6.25 2.1 5
Breadth of Length of skull.	3.25 2.4 2.4 3.25
Basal length of skull.	8.5 8.75 8.75 7.75 7.75
Year.	1862 1862 1862 1893 1893
	:::::::
Donor.	B. H. Hodgson ? B. H. Hodgson Ditto W. Rutledge Ditto Ditto
Locality. Donor.	Sikhim B. H. Hodgson Ditto B. H. Hodgson Ditto Ditto Kashmir W. Rutledge Ditto Ditto Ditto Ditto

Distribution:—Himalayas from Kashmir to Bhutan, Siwalik Hills (Kinloch), Naga Hills (Butler). Record Head:—Length 8.5 in. (cf. Lydekker, Game Animals of India, etc., p. 151). Cf. Blanford, Fauna of British India, Mammalia, p. 516, and Pocock, P. Z. S., 1908, p. 173.



Nemorhædus goral, 3rd scale.

NEMORHÆDUS SUMATRAENSIS, Gray.

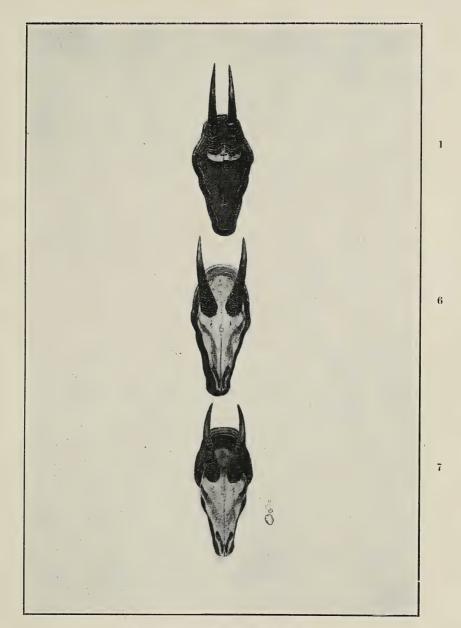
(THE KAMBING UTAN OR KAMBING GURUN.)

Tip to tip.	1.75	3.5	÷	2.5	4	4.25	2.75	2.75	4.3	4.25	5.5	
Circumfer- ence.	5.75	4.5	4.5	4.5	ũ	5.25	5.25	4.25	67.4	ī	4.5	
Length of Circumfer.	8.2	6.75	6.75	6.75	∞	8.5	8.5		8.25	00	7.25	
Breadth of skull.	i	۰.	4	3.5	4	4	3.75	4	4.25	4	~.	
Basal length of skull.	8	· · ·	11.75	12.5	12.25	13	12	11	11.3	11	· ·	
Year,	1844	·	1861	1879	1879	1861	~ ·	1861	1861	1879	1879	
Donor.	. Col. Phayre	2.	Maj. Berdmore	J. T. Jarbo	Ditto	Maj. Berdmore		Maj. Berdmore	Ditto	C. R. Cock	Ditto	
Locality.	:		L'enasserim	Chittagong Hill Tracts	Ditto	Tenasserim	Province Wellesley	Tenasserim	:	Shillong, Assam	:	jas.
T	Arakan	٠.	Tenas	Chit	1	Ten	Pro	Ten		Shil	Assam	
Sex	♂ Arakan	2.	✓ Tenas	√ Chitt	*>	₹ Ten	& Pro	$ec{\mathcal{S}}$ Ten	*∕>	\$ Shil	d Ass	

Distribution:—Assam, Burma, the Malay Peninsula and Sumatra.

Cf. Blanford, Fauna of British India, Mammalia, p. 514, and Pocock, P. Z. S., 1908, p. 173.

* Record.



Nemorhædus sumatraensis, $\frac{1}{6}$ th scale.

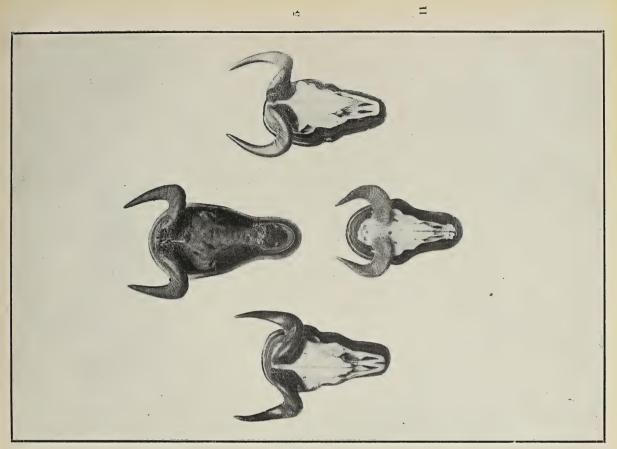
BUDORCAS TAXICOLOR, Hodgson.

(THE TAKIN.)

Locality.		Donor.	Year.		Basal length of skull.	Breadth of skull.	Length of horn.	Circumfer- ence.	Tip to tip.
Mishmi Hills, Assam	Assam	F. Jenkins	1850	50	0.	0.	9.5	7.3	14.25
Ditto	:	Ditto	1850	50	~	~.	15.25	8.5	10.3
Ditto	:	Ditto	1850	50	٥.	~.	24.5*	2.11	12.8
Ditto.	:	E. T. Dalton	1856	99	. 2.	~.	22.4	11.8	2.01
Ditto	:	Dy. Commission	er 1882		2.21	9	20.25	11.75	9.8
•		A. R. Comber	1867		16.25	6.9	21.25	11.6	12.75
Mishmi Hills, Assa	Assam	Maj. W. Brydon	1884		14.76	5.5	15.6	8.6	7.25
Assam	•	LtCol. Graham	n 1879	62	~.	~	20.75	10.3	9.52
Mishmi Hills, Assam	Assam	F. Jenkins	1850	50	٠.	~.	9.5	2.8	.13.5
Ditto	:	Ditto	1850	50	~.	₻.	14.8	99.6	00
Eastern Tibet	:	J. White	19	1906	13.25	2.42	13.75	9.75	6.55
Mishmi Hills, Assam	Assam	Deputy Commis-		1882	:	5.25	12.5	8.75	1.1
		sioner.							

Distribution:—The Mishmi Hills, Assam, through Eastern Tibet; probably to China.

Cf. Hodgson, Journal As. Soc., Bengal, xix, p. 65, and Milne-Edwards, Réch. des Mammifères, p. 367.



9



BOSELAPHUS TRAGOCAMELUS, Sciater.

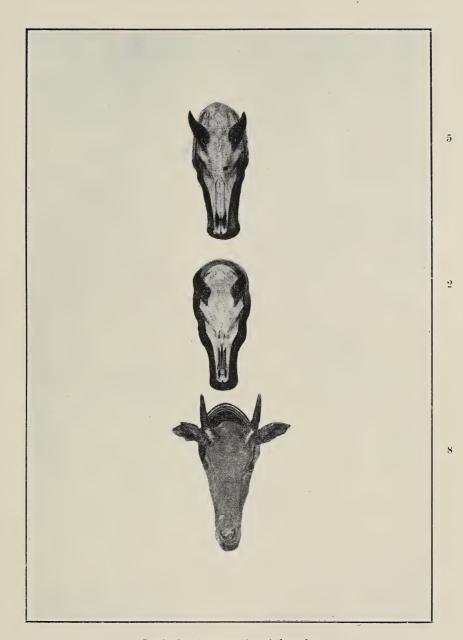
(THE NILGAL)

Tip to tip.	4	4.25	•	:	4.6	6.9	4.4	2.2
Circumfer- ence.	ಣ	9.4	:	:	7.25	6.75	6.9	4.75
Breadth of Length of skull.	4.75	8.75	:	:	7.25	6.75	6.75	6.25
Breadth of skull.	3.75	ıc	4.25	4	4.9	5.3	5.25	∞∙
Basal length of skull.	14.75	17.8	16.25	15.8	15.5	16.75	16.8	8.
Year.	1843	1881	1881	1881	1872	~		2:
10F.		rn	:		·			:
Donor	S Sherwill	J. Cockbu	Ditto	Ditto	Ditto	A. S. B.	Ditto	Ditto
Locality. Dor	S. Sherwi	Alwara, Junna R J. Cockbu	Banda Dist Ditto		Cawnpore Ditto	Ditto A. S. B.	Ditto	Ditto Ditto
Sex. Locality. Dor	S. S	δ Alwara, Jumna R J. Cockbu			de Cawnpore Ditto	Ditto A. S. B.	S Ditto	$\vec{\delta}$ Ditto

Bengal and Ceylon.—The Peninsula of India, from the foot of the Himalayas to Cape Comorin, excluding Lower Bengal and Ceylon.

Record Head:—Length 11.75 in. Circumference 9.5 in. (Not now in existence; ef. Lydekker, Game Animals of India, etc., pp. 166, 167.)

Cf. Blanford, Fauna of British India, Mammalia, p. 517.



Boselaphus tragocamelus, $\frac{1}{16}$ th scale.

TETRACERUS QUADRICORNIS, Gray.

(THE FOUR-HORNED ANTELOPE.)

Tip to tip, small and large.	1.5 2 1 2.75 1 2.75 1.5 4 2.25 1.5 2.75
	255 1 25 25 1 25 25 25 25 25 25 25 25 25 25 25 25 25
Circumfer- ence, small and large.	2
Circ	2.2 1.5 1.5 1.7 1.7 1.2 1.2
th of small arge.	1.75 3.25 2.25 3.8 1.5 1.75 3.25 1.5 2.75 1.75 2.25 3.25 1.25
Length of horn, small and large.	1.75 3.25 2.25 2 .5 2.5 1.5 2 3.8 1.5 2 1.75 3.25 2 1.5 2.75 1.75 2 2.25 1 2.25 1
Breadth of skull.	3.5 1.75 3.25 2.25 2 1 3.25 .5 2.5 1.5 2 1 3.8 1.5 2 1 3.25 1.75 3.25 2 1 3.25 2.25 1.75 2.25 1 3.25 2.25 1.75 2.25 1
Basal length Breadth of of skull.	88 7.7.7 7.7.5 8.2.5
Year.	1845 1872 1866 1844 1845 1845
Donor.	Sir W. Elliot Babu Mullick W. T. Blanford J. B. Lawson, Esq. Sir W. Elliot Ditto J. Cockburn
Locality.	S. India Raniganj Asirgarh, C. P India S. India Ditto
Sex.	10 10 10 10 10 10 10
No.	- 01 to 4 ro 9 L

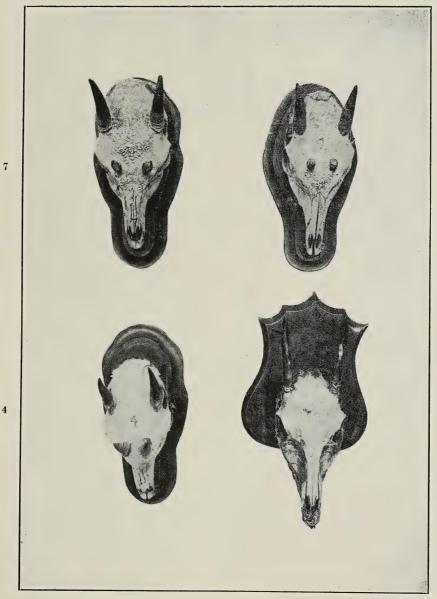
Distribution: —Through the Peninsula of India, in wooded and hilly tracts, especially the Central Provinces;

absent in the Gauges valley and Ceylon.

Record Head:—Length of large horn 5 in. (cf. Lydekker, Game Animals of India, etc., p. 172).

Cf. Blanford, Fauna of British India, Mammalia, p. 519.

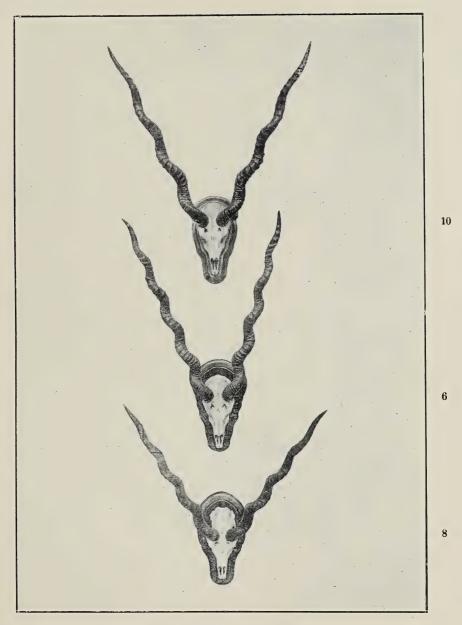




ANTILOPE CERVICAPRA, Pallas.

(THE INDIAN ANTELOPE OR BLACK BUCK.)

Tip to tip.	14.25	22.11		16	:		9	18		22.21	21.75	8.11	23	21.5	12.5	15.25	13	6.2	13	2.91	14.5	14.25	11.25
Circumfer- T	4.75	4.75		4.5	4.75		5	67.4		5	4.25	4.75	4.75	4.75	5.25	4.8	7 6.7	4.25	3.5	5	5.25	4	5
Length of horn round curve.	25.25	*27.25	30.5	30	*10.5	28.75	19.25	36		27	30.5	17.75	31.8	31.3	22.5	29.25	30.25	20.25	22.75	30.3	26.75	23.75	30.75
Breadth of hskull.		3.5		3.75	3.5		3.5	3.75		3.5	3.5	3.25	3.75	3.8	:	3.5	:	3.25	3.25	3.75	3.75	ಣ	3.25
Basal length of skull.	8.75	9.5		8.75	6.6		9.25	67.6		.6	8.75	8.5	9.25	9.8	:	9.75	:	8.8	2.	6	6	8.5	10.25
Year,	1879	1870		1881	:		~.	1881		1881	1891	1870	1891	:	1881	1842	:	1881	~.	1879	1881	1879	c.
Donor.	J. Cockburn	W. Rutledge))	Ditto	J. J. Attanass		~.	S. J. Stone		J. Cockburn	S. J. Stone	Rajah R. Mullick	S. J. Stone	Ditto	J. Cockburn	J. J. Attanass	F. Jenkins	Cockburn	~.	J. Cockburn	Ditto	Ditto	2.
Locality.	Banda District	2:		Banda District			No history	Karnal District,	Punjab.	Banda District	Karnal " Punjab	District	Punjab	Ditto	Banda District	· · · · · · · · · · · · · · · · · · ·	Doon of Assam	Banda District	2.	Agra	Banda District	Allahabad District	~:
Sex.	:	:		:	:		:	:		:	:	:	:	:	:	:	:	:	:	:	:	:	:
-																							



Antilope cervicapra, $\frac{1}{12}$ th scale.

ANTILOPE CERVICAPRA, Pallas-contd.

(THE INDIAN ANTELOPE OR BLACK BUCK)—contd.

Tip to tip.	10.5 15.5 12.25 12.5 40
Circumfer- ence.	4.75 4.75 4.4 7.75
Length of horn round curve.	26.25 23.75 21.9 21 19.25 9.75
Breadth of horn round skull.	20 00 00 00 00 00 00 00 00 00 00 00 00 0
Basal length of skull.	9.25 8.8 8.75 9.25
Year.	? 1879 1881 ? ! 1879 1879
	:::::
Donor.	? Cockburn Ditto ? Cockburn Ars. Turnbull
	J. Co. Di. J. Co. Mrs.
	J. Co J. Co J. Co Mrs.
Locality.	H. H.
Sex, Locality.	F FX

Distribution:—The plains of India from the foot of the Himalayas to Cape Comorin and from the Punjab to Lower Assam; Lower Bengal at Midnapore and Orissa; unknown in Ceylon, the Malabar Coast and the

Record Head:-Length not round curve 28.25 in. Round curve 40.5 in. (cf. Rowland Ward, Horn Measurements, p. 95).

Cf. Blanford, Fauna of British India, Mammalia, p. 521.



PANTHOLOPS HODGSONI, Hodgson,

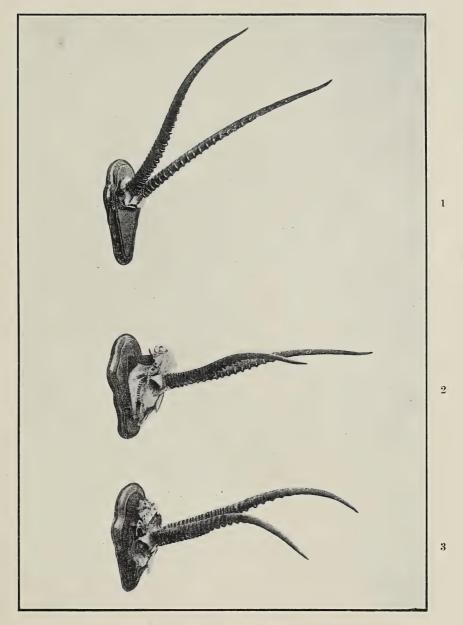
(THE CHIRU.)

Tip to tip.	15.5	14.25	11.75	12.5	14.5	:	1.5	12.25	
Circumfer- ence.	5.25	4.75	5.2	2.42	5.2	:	9	5.52	
Length of horn.	26.3	23.5	23.5	23.25	24.25	:	25.25	22.5	
Basal length Breadth of skull.	~	3.75	~.	~.	~.	ဏ	∼.	3.5	
Basal length of skull.	8	10.5	٥٠	٥.	2.	10	~.	10.25	
Year.	1877	1877	1877	1877	1873	1873	8061	1873	
			:	:	:	٠.	:	:	
Donor	I, Wandelli	Ditto	Ditto	Ditto	J. Biddulph	Dr. F. Stoliczka	Purchased	J. Biddulph	
Locality.	1	Ditto Ditto	:	:	:	÷	t."	Ladak J. Biddulph	
	1	: :	:	:	:	÷	t."		

Distribution:—Tibet from 12,000 to 18,000 ft., from Ladak eastward; also found in North Sikhim.

Record Head:—Length 27.75 in. Circumference 6.12 in. Cf. Rowland Ward, Horn Measurements, p. 102.

Cf. Blanford, Fauna of British India, Mammalia, p. 524, and Lydekker, Game Animals of India, p. 155.



Pantholops hodgsoni, 12th scale.

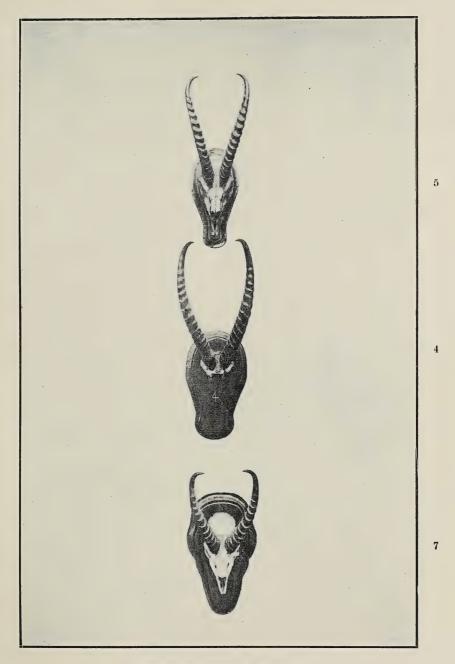
GAZELLA SUBGUTTUROSA, Blainville.

(THE PERSIAN GAZELLE.)

Z	A CO	Toolite		***	Basal length	Breadth of	Lenoth of	Circumfer-	
10.	Sea.	LOCATIVY.	Donot	r ear.	of skull. skull.	skull.	horn.	ence.	Tip to tip.
-	. 0	Varkand	Dr F Stoliezka	1877	φ. σ.	37.6	й. 0	76	20.7
07	+ *~	Near Ispahan	Sir O. St. John	1870	0 00	2.7.2	ه د تن	4.0.7	4 4.00 F. 7.00
ಣ) * 0		J. Scully	1875	6.75	2.5	9.5 5.6	4 4 5 7	. 4 . 7.
4	O+	Ditto	Ditto	1889	2.	~	*91		3.75
5	₩	Kandahar	T. Hutton	1846	٥.	2.2	2.11	4	2.75
9	№	Ditto	H. B. Lumsden	1859	٥.	2.	10.5	4.25	1.8
^	60	Kashgar	Dr. F. Stoliczka	1874	8.25	2.2	11.25	4.5	3.25
∞	0+	"Persian Gulf"	J. Murray	1880	7.75	2	12.25	3.75	8.5
6	₩	Kuhak, Seistan	A. H. McMahon	1906	∞	8.7	12.75	4.4	9.9
10	~ 0	Ditto	Ditto	1906	6.4	2.75	1111	4.35	3.5
11	~	Ditto	Ditto	9061	∞	2.5	12.5	4.3	1.75
12	₩	Ditto	Ditto	1906	7.75	2.7	1.5	4.5	1.25
ෆ	& Juv.	Ditto	Ditto	1906	7	23	2.1	ಣ	Horns
	ı								touch.
14	S Juv.	Ditto	Ditto	1906	.9	23	1.25	1.5	1.65
15	К0	:	:	•	8.5	2.75	13	5.25	67
16	* ⊙	Yarkand	Dr. F. Stoliczka	1874	· •	2.5	10.5	4.25	3.25

Distribution:—The highlands of Persia and Afghanistan extending westward as far as Tiffis, northward all over Russian Turkestan, and eastward to Yarkand; not found on the shores of the Persian Gulf, being there replaced by G. bennetti.

Cf. Blanford, Fauna of British India, Mammalia, p. 528.



Gazella subgutturosa, $\frac{1}{8}$ th scale.

GAZELLA PICTICAUDATA, Brooke.

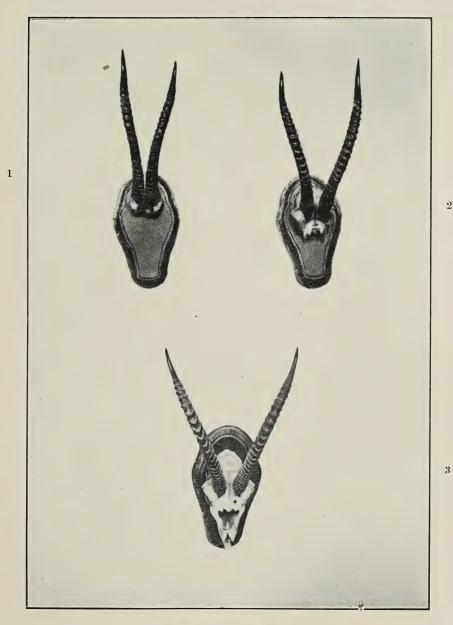
(THE GOA OR TIBETAN GAZELLE.)

Tip to tip.	4.5 8.75 5.25 4.75
Circumfer- ence.	3.5 3.5 3.75 3.75
Length of horn.	11.75 13.25 13.3 11.75
Breadth of skull.	2.75
Year. Basal length Breadth of Length of circumferof skull, skull,	\$ 2 \$ \$ \$
Year.	1846 1846 1879
Donor,	No history F. Jenkins Do. Ladak, N. Elias
Locality.	† Do Kukchu near Ladak, 15,000 ft.
Sex.	60 60 60
No.	H 02 03 44

Distribution:—The Tibetan plateau, 13,000 to 18,000 ft.

Record Head:—Length 14.75 in. (cf. Rowland Ward, Horn Measurements, Appendix, p. 5).

Cf. Blanford, Fauna of British India, Mammalia, p. 529.



Gazella picticaudata, 1th scale.

GAZELLA BENNETTI, Gray.

(THE INDIAN GAZELLE.)

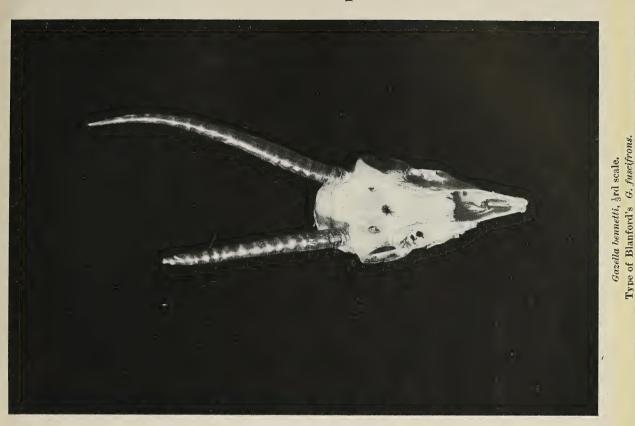
50505050				of skull.	skull.	horn.	ence.	Tip to tip.
0.50.50.50	Pubb Hills Sind	Karaohi Mus	1879	~	2	10.5	3.75	
60 K0 K0	and tring, bind	IX II Di	1010			0.01	- L.	1 0
to to	Sind	W. I. Blantord	0/81	٠.	٧.	6.01	c /. g	67.5
E	Chanda, C. P	Mus. Coll	1867	~.	e.	6	4	6.25
	Sind	W. T. Blanford	2.	~.	œ.	5.25	. 3.25	2.25
·	Allahabad Dist	J. Cockburn	1879	6.5	2.2	7.75	3.75	3.25
. :	~.	Zool. Gardens	2.	6.75	2.5	4.75	1.75	4.25
:	Banda Dist., U. P	J. Cockburn	1879	7.5	2.8	9.25	3.5	2.75
	2.	Zool. Gardens	~	7.75	2.75	9.75	4.3	4.5
7	Allahabad Dist	J. Cockburn	1879	~.	2.5	9.25	4	4.8
	2.	~:	~.	2.	٥٠	7.5	3.75	4
	Allahabad Dist	J. Cockburn	1879	6.5	2.75	9.25	4	3.5
	Banda Dist	Ditto	1881	7.75	2.5	12	3.75	9
	Banda	Ditto	1879	~.	٥٠	5.75	<u>8</u>	1.75
	Pind Dadan Khan	W. Theobald	1853	8.25	2.75	10	4	3.75
:	Pubb Hills, Sind	Karachi Mus.	1879	∞	2.5	7.5	3.75	2.2
*	Maytina	Ditto	1879	∞	2.5	10.75	7	4.5
~		Ditto	1879	∞	2.75	12	4.25	6.5
	Jalk, Baluchistan,	W. T. Blanford	1872	2	2.52	5.25-7.5	1.75	3.25
	3,000 ft.							

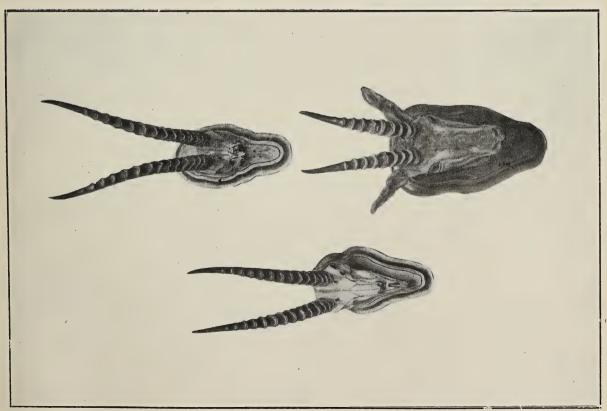
Distribution:—North-Western and Central India through Baluchistan to Bushire; absent on Malabar Coast, in Ceylon, Lower Bengal and the Western Ghâts of the Bombay Presidency.

Record Head:—Length 15 in. Circumference 5 in. (cf. Lydekker, Game Animals of India, p. 202).

Cf. Blanford, Fauna of British India, Mammalia, p. 526.

* Type of Blanford's Gazella fuscifrons.





Ç1

CERVUS CASHMEERIANUS, Falconer.

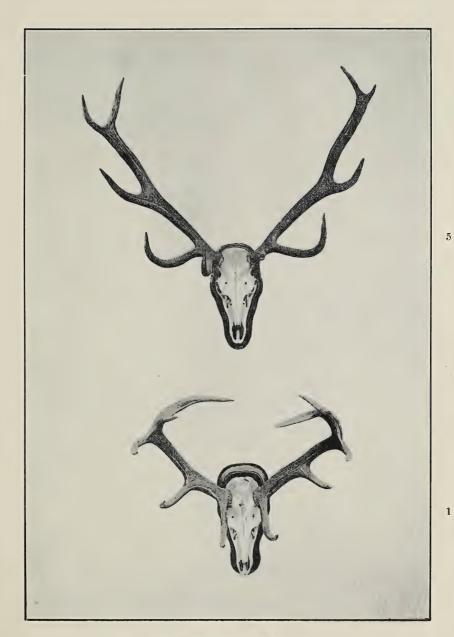
(THE KASHMIR STAG OR HANGUL.)

Points,	7 9 9 8 1 0 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Tip to tip.	5.5 15.75 37.25 25.75
Widest inside.	23 30.25 24.25
Circumfer- ence.	66.5 6.5 7.7.5 6.5.5 7.7.5 6.5.7 7.7 7.7
Length of horn.	33 40.8 40.8 23.5 36.5 32.7 53.7 53.7 53.7 53.7 53.7 53.7 53.7 53
Breadth of skull.	5. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
Basal length of skull.	15.25
Year,	1878 ? ? ? ? 1887 1872 1865 1865 1865 1887
	: : : : : : : : : : : : : : : : : : :
Donor,	R. Lydekker No history Do. S. J. Stone No history R. C. Beavan Purchased C. E. Yate
Locality.	Kashmir Valley R. ? N. ? N. Upper Wurdwan, Kashmir. S. Purchased Bokhara Oxus R. mr. Balkh C.
No.	H 22 22 4 70 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

Distribution:—Kashmir pine forests between 9,000 and 12,000 ft.

Record Head:—Length 48.5 in. (cf. Lydekker, Game Animals of India, etc., p. 213).

Cf. Blanford, Fauna of British India, Mammalia, p. 535.



Cervus cashmeerianus, 1sth scale.

CERVUS AFFINIS, Hodgson.

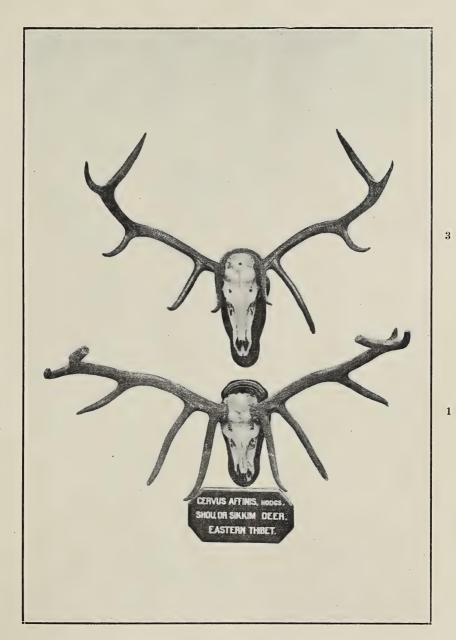
(THE SHOU.)

or. Year, Isaal Breadth Length Circumfer Widest Tip to tip. Points.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1877 ? ? 46.75 5.75 36.25
Basal length of skull.	A. Eden 1882 rrackpore 1856 enagerie 1851	:
Locality.	hari, Tibet Dhoulagiri, hari, Tibet	Sikhim $ $ J.
No.	H 23 €	4

Distribution:—Eastern Tibet and the Chumbi Valley to Sikhim.

Record Head:—Length 55.75 in. Circumference 6.5 in. Tip to tip 17.25 in. (cf. Rowland Ward, Horn

Measurements). Cf. Lydekker, Game Animals of India, p. 218.



Cervus affinis, $\frac{1}{20}$ th scale.

CERVUS DYBOWSKII, Sclater.

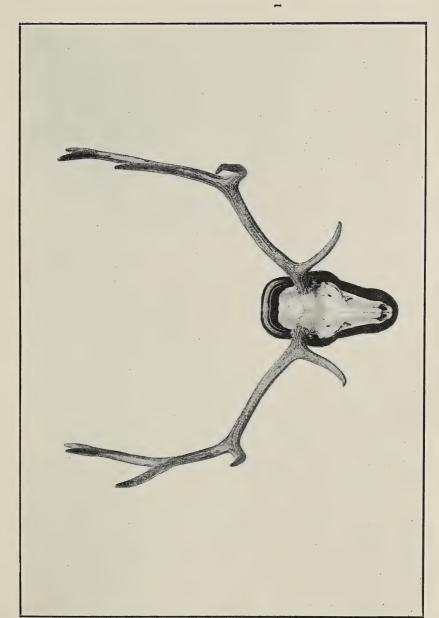
(THOROLD'S DEER.)

Tip to tip.	31.75
Points.	5 × 5
Widest inside.	33
of Circumfer- W	4.75
Basal Breadth Length of skull.	32.25
Breadth of skull.	5.75
Basal length of skull.	15.25
Year.	1888
Donor.	A. M. Dunne
Locality.	" Darjeeling Bazaar"
No.	-

Distribution:—Tibet.

Record Head:—Doubtful.

Cf. W. L. Sclater, Journ. As. Soc. Bengal, vol. lviii, p. 186; and Lydekker, Deer of all Lands, p. 91.



Cervus dybowskii, 10th scale.

CERVUS EUSTEPHANUS, Blanford.

(THE ALTAI WAPITI.)

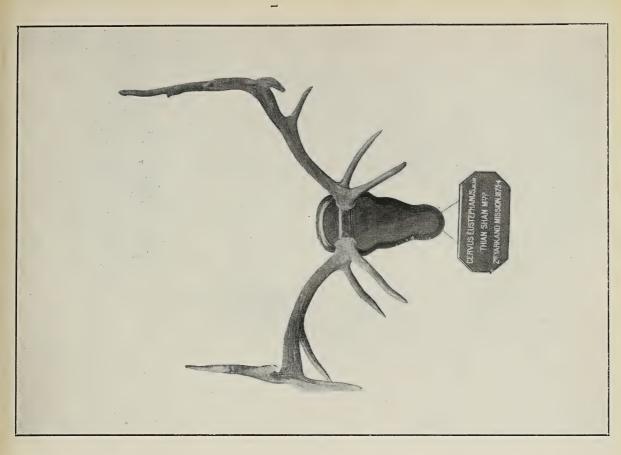
Locality.	Donor.	Year.	Year. Length of horn,	Circumference.	Points.
Fhian Shan Mts.	Dr. F. Stoliczka	1874	51.5, 50.1	10.9, 10.5	× ×

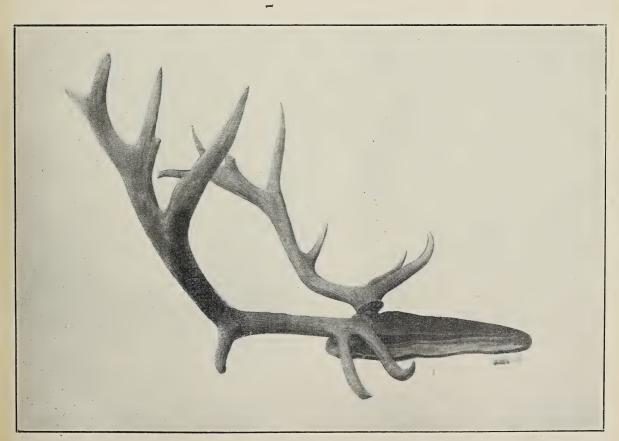
Distribution:—The Altai and Thian Shan Mountains.

Note:—Probably these two horns were not from the same animal.

Cf. Blanford, Proc. Zool. Soc., 1875, p. 637.

* Type of Blanford's Cervus eustephunus. Record.





CERVUS SIKA, Temminck.

(THE COMMON SIKA.)

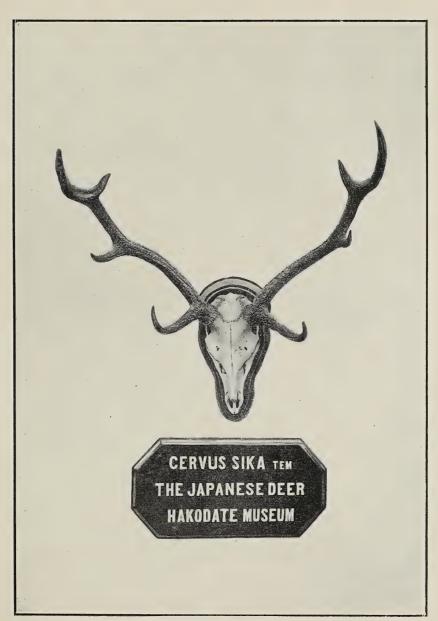
	Donor.	Year.	Basal Breadth Length of skull of horn.	Breadth of skull.	Length of horn.	Circumfer- ence.	Widest inside.	Points.	Tip to tip.
H ::	Hakodate Museum	1884	11.75	4.55	23.5	4.25	18.75	4 × 4	20.25

Distribution:—Japan and Northern China.

Record Head:—Length 31.25 in. Circumference 5.25 in. Tip to tip 27.2 in. (cf. Rowland Ward, Horn Measurements, p. 25).

Cf. Lydekker, Deer of all Lands, p. 113.





Cervus sika, 8th scale.

CERVUS TAËVANUS, BIyth.

(THE FORMOSAN SIKA.)

Points.	4 × 4
Tip to tip.	2
Widest inside.	8.5
Circumfer- ence.	3.25
Length of horn.	14
Breadth of skull.	3.75
Basal Breadth Length skull.	10.75
Year.	1860
Donor.	R. Swinhoe
Locality.	Formosa
No.	*

Distribution:—The Island of Formosa.

Cf. Blyth, Journ. As. Soc. Bengal, vol. xxix, p. 90.

* Type of Blyth's Cereus taëranus.

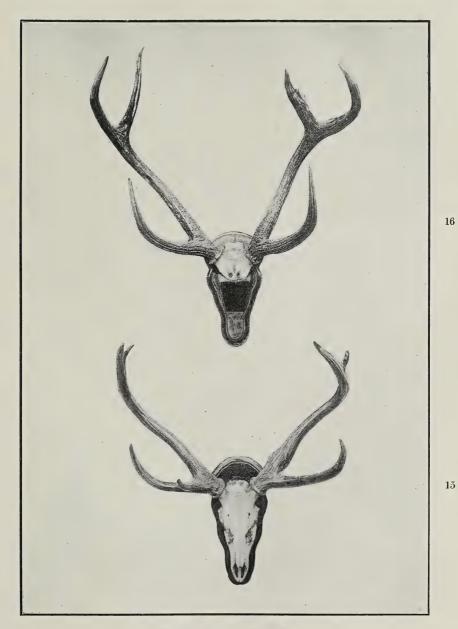


Cervus taëvanus, $\frac{57}{12}$ th scale.

CERVUS ARISTOTELIS, Cuvier.

(THE SAMBAR.)

Locality.		Donor.	Year.	Basal length of skull.	Breadth of skull.	Length of horn.	Circumfer- ence.	Widest inside.	Points.	Tip to tip.
No history J. Pybus	J. Pybus		1847	~.	~	30.5	6.75	16	×	14.25
Ditto Ditto	Ditto		1847	~.	~.	22.25	4.75	18.5	ಣ × ಣ	18
:	Ditto		1847	~.	~.	23.5	4.75	13.75	×	11.25
Ditto	to	:	1847	14.25	4.75	17	4	12.75		14.75
:	Col. Jenkins	:	1846	15	5.2	20.2	9	12.8	×	8.5
Arakan Col. Phayre		:	1847	15	4.8	20.2	4.75	15.5	×	15.75
Ditto	to	:	1847	~.	~.	23.5	4	16.8	ಣ × ಣ	13.5
Ditto Ditto	Ditto		1847	~.	~.	24.8	4.5	20.5	ಣ × ಣ	19.5
:	. Westru	جد	1866	14	4.75	22.75	4.6	:	:	:
No history J. Pybus	J. Pybus	:	1847	14.5	4.55	12.75	4.5	9.5	ಣ × ಣ	9.5
Ditto Ditto	Ditto	:	1847	14	~.	23.5	4.5	8.25		∞
Ditto Ditto	Ditto		1847	12.25	4.75	23.3	5.25	18.5	×	2.81
Ditto Ditto	Ditto		1847	~.	~.	29.75	6.55	:	×	:
Central India S. R. Tickell		:	1846	~.	~	19.5	4.5	21.5	ಣ × ಣ	61
	۰.	:	~•	٥٠	~.	34.75	6.75	:	×	:
:	J. Cockburn .	:	1886	~.	~.	38.75	6.75	27.75	3 × 3	56
Coromandel Coast Purchased	Purchased .	:	1848	~.	~.	43	10	;	×	:
:		:	1843	16.75	5.3	26.5	5	18.5	ಣ × ಣ	
2:	2.	:	~.	~.	~.	8.67	9	19	ಣ × ಣ	
Banda Dist J. Cockburn	J. Cockburn	:	1886	6.91	5.25	30.75	9	31	4×3	26.75
No history J. Pybus	J. Pybus	:	1847	~	٧٠	31.75	6.5	24.25	×	14.75
Ditto Ditto	Ditto .	:	1847	~.	~	26.75	5.25	24.25	ಣ × ಣ	18
:	Raja R. Mullick	:	1846	91	ũ	23.25	9	17.25	×	14.25
No history J. Pybus	J. Pybus	:	1847	~	∞ ∙	25.5	5	8.02	ಣ × ಣ	19.5

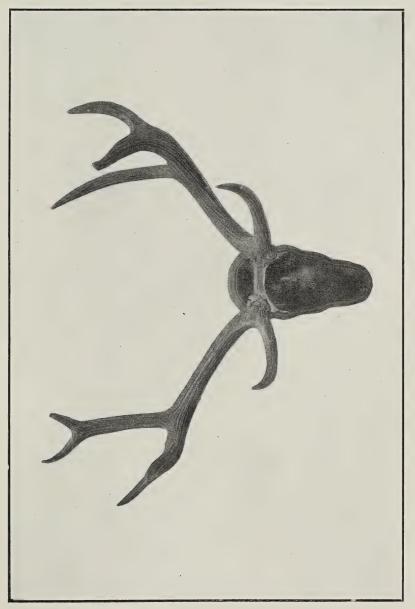


Cervus aristotelis, 113th scale.

CERVUS ARISTOTELIS, Cuvier-continued.

(THE SAMBAR)—continued.

Tip to tip.	29.3 13.75 9.25 15.75 3.25 13 13 15 One horn only. Ditto One horn abnor- mal.
Points.	
Widest inside.	29 21 75 21
Circumfer- ence.	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
Length of horn.	25.75 28.75 28.75 28.75 27.75 27.75 28.75 29.25 29.25 29.25 20
Breadth of skull.	6.25
Basal length of skull.	16.25 15.5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Year,	1879 1879 1847 1874 1879 1896 1896 1886 1886 1886 1886 1886 188
Donor.	H. Butcher J. Pybus Sir A. Phayre H. Butcher O. W. Malet, Esq. Ditto H. Butcher W. Masters, Esq. No history J. Cockburn Ditto R. C. Beavan Zool. Gardens Ditto J. Cockburn Loitto T. Cockburn Ditto T. Cockburn T. Tockburn T
Locality.	Assam Rewah, U. P. No history Arakan Assam No history Almora Mirzapore Ditto No history Almora Mirzapore Ditto No history Mirzapore Ditto Oitto Mirzapore Ditto No history Mirzapore Ditto Oitto
No.	22 22 22 22 23 23 24 4 4 4 4 4 4 4 4 4 4



Cervus aristotelis, 13th scale.

CERVUS ARISTOTELIS, Cuvier-concluded.

(THE SAMBAR)—concluded.

to .	rn	y. Eto.
Tip to tip.	1 horn	Did
Points.	¢.i	භ × භ
Widest inside.	:	:
Basal Breadth Length Circumfer-skull.	4.75	4.25
Length of horn.	24.75	26
Breadth of skull.	:	:
Basal length of skull.	:	:
Year.	1865	1882
Donor,	R. C. Beavan	Zool. Gardens
Locality.	:	
No.	45	46

Distribution: - Throughout the Oriental region in hilly forest tracts. Wanting in Sind, Rajputana, and

the Punjab.

**Record Head:—Length 50.12 in. Circumference 9.38 in. (cf. Lydekker, Game Animals of India, p. 226).

Cf. Blanford, Fauna of British India, Mammalia, p. 543.

CERVUS UNICOLOR SWINHOII, Brooke.

(THE FORMOSA DEER.)

No.	Locality.	Donor.	Year.	Basal length of skull.	Breadth of skull.	Length of horn.	asal length Breadth of Length of Circumfer- of skull.	No. of points.
П	Formosa	Zool. Gardens	1882	8.	:	15.25	3.15	99 99

Distribution:—The Island of Formosa.

Record Head:—Length just under 20 in. (cf. Rowland Ward, Horn Measurements, p. 12).

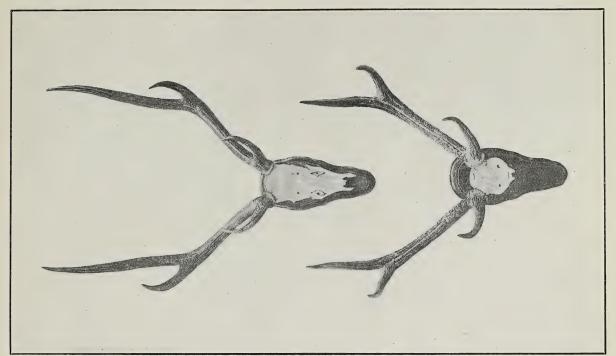
Cf. Lydekker, Deer of all Lands, p. 154.

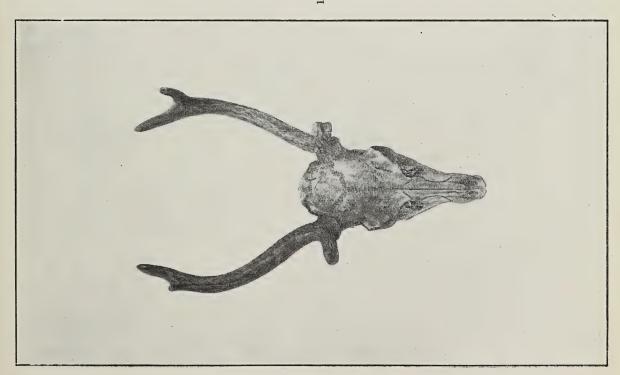
CERVUS HIPPELAPHUS, Cuvier.

(THE JAVAN SAMBAR.)

Tip to tip.	6.5 7.25 16 19.5 13.3 15.5 9.5
Circumfer- ence.	8 61 70 70 70 4 80 4 70 80 61 77 77 75 61 77 75 91 75 70 70 70 70 70 70
Length of horn.	11.9 8.3 2.8.5 2.8.5 2.1.25 2.1.25 1.6.5
Breadth of skull.	
Basal length Breadth of of skull.	1.10 0.00.00.00.00.00.00.00.00.00.00.00.00.
Year.	1882 1882 1884 1884 1884 1884 1842 1842
Donor	Zool. Gardens Ditto Batavian Society Ditto Ditto Ditto Willis Earle, Esq Ditto V. Hugon, Esq.
Locality. Donor.	

Distribution:—Java, the Celebes Islands, Timor and the Moluceas. Introduced into Mauritius. Cf. Lydekker, Deer of all Lands, p. 162.





CERVUS AXIS, Erxleben.

(THE SPOTTED DEER OR CHITAL.)

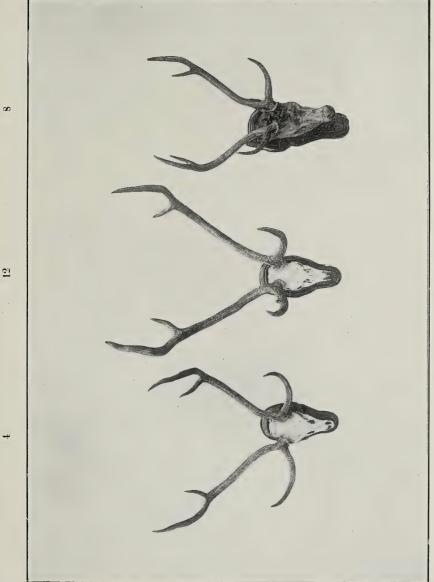
Points.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	×	4 × 3	×	×	×	×	×	×	×	×	×	×		80 80 80 80 80 80 80 80 80 80 80 80 80 8	ಣ	(Only one	horn.)	က X က	3 × 72
Tip to tip.	9.5	22.75	13	17.75	15.5	1.5	20.75	15.5	16.75	13.5	12	19	21.25	16.5	5.25	:			:	:
Circumfer- ence.	5.52	3.75	2.25	3.75	4.25	3.25	3.75	4	4	4.25	3.25	4.75	9.75	4.25	က	3.75			3.5	
Length of horn.	16.3	29.75	15.75	30.25	31	24.25	99	24	27.5	29.5	17.75	34.75	15.25	29.5	26.25	29		1	20.75	19.5
Breadth of skull.	3.5	3.75	~•	4.25	~•	3.75	٥٠.	·	·	· ·	3.75	4	4.25	œ.	3.75	:			:	:
Basal length of skull,	10.75	11.25	·	11.25	۰.	10.25	~ ·	~ · (> •••	~ ·	67.6	10.75	~· ·	> •••	> ·	:			:	:
Year.	~.	~.	e·	~.	1846	1842	1842	1846	~ ·	~	1845	1886	∞.	~•	~∙	:		6	1882	1880
Year.	2:	· ·	e-	2.	1846	1842	1842	1846	···	2:	1845	1886	~· :	·	œ.	:			:	
Donor, Year,	No history	tto	:	itto	van l	:	:	ns	ry	:	avan		:	:	:					
	i No history i	tto	:	Ditto	van l	:	:	ns	ry	Ditto	avan	J. Cockburn	? No history ?	:	:				I. Gardens	

Distribution:—Throughout India from the foot of the Himalayas to Cape Comorin and Ceylon. Absent

in the Punjab and Assam.

Record Head:—Length 38.75 in. (cf. Asian, 13th April 1888).

Cf. Blanford, Fauna of British India, Mammalia, p. 546.



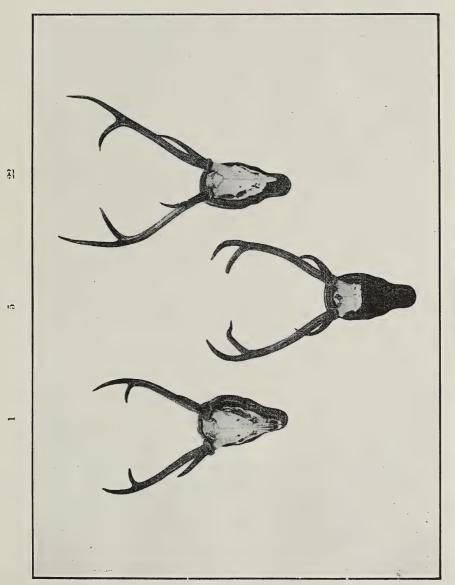
Cervus axis, Tith scale.

<u></u>

CERVUS PORCINUS, Zimmerman.

(THE HOG DEER.)

Locality.		Donor.	Year.	Basal length of skull.	Breadth of skull.	Length of horn.	Circumfer- ence.	Tip to tip.
	•	W. Masters. Esq.	1849	76.8	9.05	0.01	30.0	
-		H. Butcher			0 23	20.71	0. c. c.	0.7 0.1
				:	:	62.61	67.6	cz.11
	:	D. C. Deavan	c981	:	:	18	2.75	10.25
	:	Zool. Gardens	1878	:	:	8.75	2.75	6.25
	:	Purchased	1844	6.5	2.75	14.25	ಣ	10
	:	H. Butcher	1879	•	:	13.5	2.75	7
	•		1879	:	:	18.5	3.5	11
	:	W. Masters, Esq.	1842	•	:	18.75	2.75	12.25
	:		1842		:	15.8	3.1	10
	:	H. Butcher	1879	:	:	14.75	3.75	8.25
	:	_	æ. :	:	:	13.25	2.75	8.25
	:	H. Butcher	1879	:	:	∞	5.6	6.5
	:	Ditto	1879	•	:	11.25	5.8	9.25
	÷	Ditto	1879	:	:	14.75	2.75	10.3
	:	Ditto	1879	•	:	14.75	ಣ	8.5
	•	Ditto	1879	:	:	10.8	2.75	7.75
	:	No history	1879	•	:	7.25	1.75	:
	:	Ditto	:	•	:	6.75	2	:
	:	Ditto	:	:	:	15.5	2.75	:
	:	1	:	•	:	14.75	2.75	6.75
	:		1879	:	:	13.25	2.75	10.5
	÷	R. C. Beavan	1865	•	:	20.5	3.25	8.25
			:	:	:	14.5	2.75	6.5
	:	H. Butcher	1879	:	:	16.5	2.75	œ



Cervus porcinus, 16th scale.

CERVUS PORCINUS, Zimmerman—continued.

(THE HOG DEER)—continued.

Tip to tip.	2.75 13 5 7.5 9.5	
Circumfer- ence.	01 01 01 01 01 01 01 01 01 01 01 01 01 0	
Length of horn.	17.5 14.75 17.25 18.25 13.25 15.25 8.5	_
Breadth of skull.	: : : : : : : : : : : : : : : : : : :	
Basal length of skull.	7.55	
Year.		
1		
Donor.	H. Butcher No history Ditto Ditto Zool. Gardens No history Zool. Gardens	
Locality.	Assam ?	

Distribution: -Sind and the Punjab to Assam and thence to Burma, Common in the Terai. Introduced into Ceylon.

Record Head:—Length 23.25 in. Circumference 3.6 in. (cf. Lydekker, Game Animals of India, p. 242).

Cf. Blanford, Fauna of British India, Mammalia, p. 549.

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CERVUS DUVAUGELI, Guvier.

(THE SWAMP DEER OR BARASINGHA.)

No.	Locality.	Donor,	Year.	Basal length of skull.	Breadth of skull.	Length of horn.	Circumfer- ence.	Widest inside.	Points.	Tip to tip.
-	~•	Purchased	1858	2.21	4.5		5	2.2	×	17.75
37	~.	•	1858	~.	٥٠	22.25	4.5		5×5	17.75
್ಯಾ	Assam	her	1879	~.	~.	-1	·	18.5	×	13.75
	Nerbudda	ullick	1850	10.75	3.75	4.25		:	×	3.75
. ic	~:		1858	14.5	4	13.5	4.75	19.25	×	23.5
9	~.	to	1858	~	~.	15.75	3.5	12.5	×	10.75
7	Upper Bengal	wicke	1822	~.	4.75	28.5	5.25	20.2	×	14.25
. ∞	Shillong, Assum	Ĭ	1879	~	٥٠	30.25	5.3	9.02	×	22.5
0	~··ô	Δ	1858	~.	4.5	32.5	$\dot{\omega}$	32.25	×	28.5
10	. 01	to ,	1858	~.	~.	24	ċ1	23.25	×	19
=	. ~.	Ditto	1858	۷.	~.	27.5	5.25	23.75	×	22.5
12	~	00	1858	~.	•	27.3	5.8	26.5	×	22.25
13	Assam	Frith.	1842	~.	4.75	27.25	Ċ1	22.75	7 × 7	20.5
4	~	story	1858	~.	~.	27.25	5.25	28.5	×	21.4
15	Tezpur. Assam	-	∞	:	~:	30.25	5.2	24.5	6 × 7	18.75
91	Lakhimpur. Assam		1879	:	. :	27.75		27.25	×	20.12
17	Calcutta	rdens	1877	15.25	3.75	20.2	4	17	4 × 4	25.25
$\frac{\infty}{-}$	•		:	:	:	27.25	5.25	:	9	Single
		•								horn
										only.
19	•	Ditto		:	:	24		:	C	Ditto.
20	:	Ditto		:	:	18	4.75	:	5	Ditto.
21 —	:	Ditto		:		21.25	-1	:	5 × 5	:
		- 7								

CERVUS DUVAUCELI, Cuvier—continued.

(THE SWAMP DEER OR BARASINGHA) -continued

Tip to tip.	:	:
Points.	9×9	4 × 4
Widest inside.	:	÷
Basal Breadth Length Circumfer- of skull. of horn, ence.	Q	4.25
Length of horn.	35.5	16.75
Breadth of skull.	:	•
Basal length of skull.	•	
Year,	1886	1883
	:	
Donor.	J. Cockburn	Zool. Gardens
	(Chota J. Cod	
Locality	22 Sirgoojah	ragbur).
No.	22	23

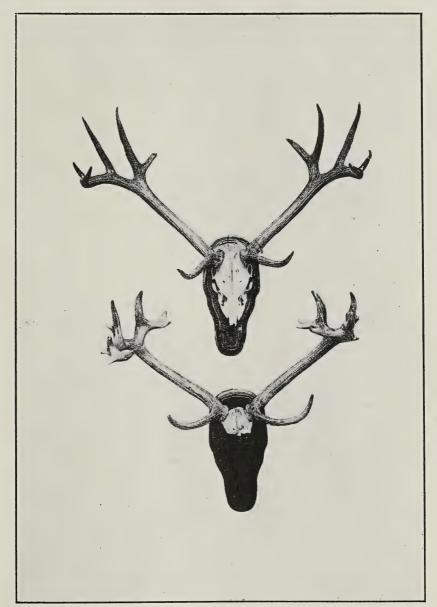
Distribution:—The base of the Himalayas from Kyarda Doon to Bhutan; Assam, along the Brahmaputra valley to the Sunderbunds. Occurs also in the Central Provinces from Mandhla to Midnapore.

Record Head:—Length 41 in. Circumference 5.5 in. (cf. Rowland Ward, Horn Measurements, p. 17).

Cf. Blanford, Fauna of British India, Manmalia, p. 539.







Cervus duvauceli, $\frac{1}{10}$ th scale.

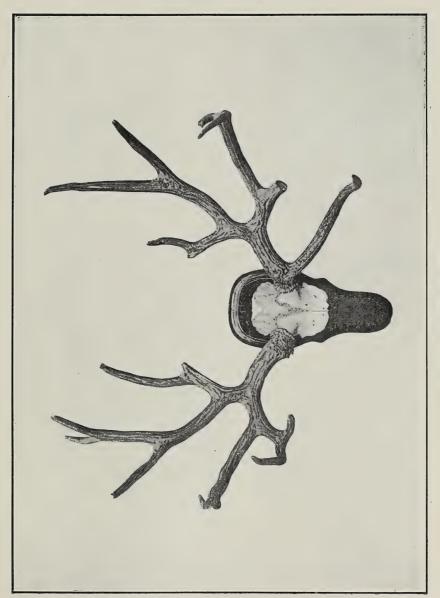
CERVUS SCHOMBURGKI, Blyth.

(SCHOMBURGK'S DEER.)

Points. Tip to tip,	16.25
Points.	10×8
Widest inside.	28.75
Length of Circumfer- horn.	5.25
Length of horn.	30.25*
Year.	1878
Donor.	J. Anderson
Locality.	Sanda Valley, Yunnan
No.	-

Distribution:—North Siam and Yunnan. Cf. Lydekker, Deer of all Lands, p. 194.

*Record.



Cervus schomburgki, 4th scale.

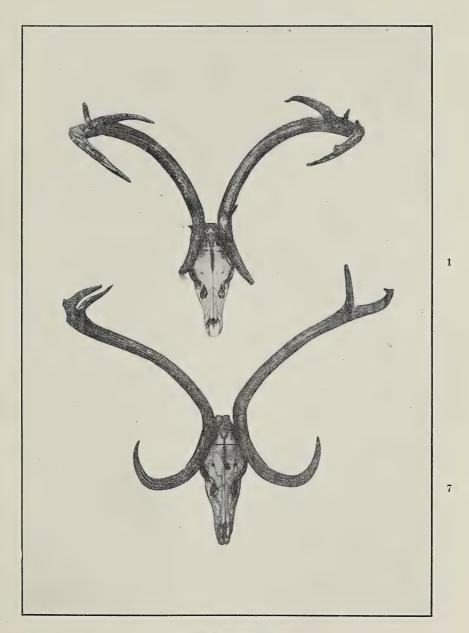
CERVUS ELDI, Beavan.

(THE THAMINE.)

Sir A. Phayre 1847 J. McClelland 1844 R. C. Beavan 1865 H. Lewis 1846 J. McClelland 1844 Purchased 1861
Dr. Pritchard Sir A. Phayre J. McClelland Sir A. Phayre Purchased Sir A. Phayre

Distribution: —Manipur, southwards through Burma to the Malay Peninsula. Also found in Cambodia

Record Head:—Length 42 in. Circumference 5 in. (cf. Lydekker, Game Animals of India, etc., p. 255). Cf. Blanford, Fauna of British India, Mammalia, p. 541.



Cervus eldi, 3th scale.

CERVULUS MUNTJAC, De Blainville.

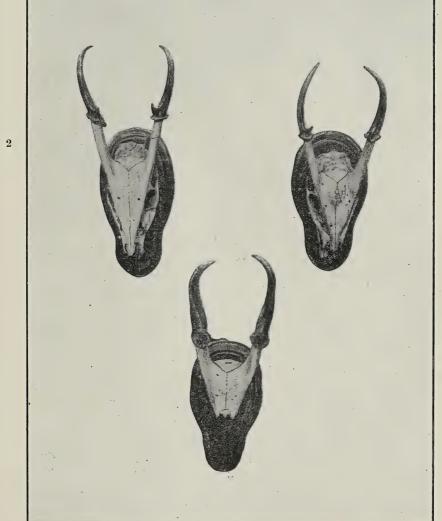
(THE BARKING DEER.)

					2 141 G	J~ 17 1		
No.	Locality.	Year.	Date.	of skull.	of skull. skull. horn.	horn.	ence.	Tip to tip.
_	No history	00:		7.5	2.25	3.25	1.75	3.5
0.1	Dibrugarh, Assam		1879	7.75	2.75	5.25	2.25	4.3
က		A. Mason		2.	0.	8.25*	3.25	2.5
4	Arakan			2.	۷۰	2.2	1.5	3.25
5	Ditto		1896	2.	٠٠.	3.25	1.8	3.5
9	Nepal			7	2.5	5	2.25	2.75
1	No history	· ·	~	00	5.3	:	:	:
∞	Ditto	e.	~	7	2.25	5.6	2.25	2.2
6	Shevaroy Hills, Madras	Mrs. W. King.	1888	8.25	2.25	2.2	1.75	3.25
10	Nepal	Raja R. Mullick	1852	2.8	2.25	5.25	2.25	2.75
	No history	2	æ.	2.42	2.25	2.25	1.25	3.25

Distribution:—India, Nepal, Ceylon, Burma, the Malay Peninsula, Java, Banka, Borneo and Hainan. Of. Blanford, Fauna of British India, Mammalia, p. 532.



3



Cervulus muntjac, $\frac{1}{6}$ th scale.

CERVULUS FEÆ, Thomas and Doria,

(FEA'S RIB-FACED DEER.)

No specimen in the Museum. Of. Thomas and Doria, Ann. Mus. Civ. Gen., 2, 2a, vii, p. 92.

CERVULUS REEVESI, Swinhoe.

(THE CHINESE MUNTJAC.)

	Locality.	Donor.		Year.	Basal length Breadth of Length of Circumfer- of skull.	Breadth of skull.	Length of horn.	Circumfer- ence.	Tip to tip.
Formosa	÷	R. Swinhoe	÷	1860	6.25	67	61	1.25	2.25

Distribution:—S. China to Ningpo; Formosa. Cf. Lydekker, Deer of all Lands, p. 208.





Cervulus reevesi, 3rd scale.

CAPREOLUS PYGARGUS, Gray.

(THE SIBERIAN ROE-DEER)

Length of Circumfer. Tip to tip. Points.	80 X
Tip to tip.	2.75
Circumfer- ence.	4.75
Length of horn.	12
Year.	1878—91 12
Donor,	2nd Yarkand Mission
	:
Locality.	Kashgar
No.	-

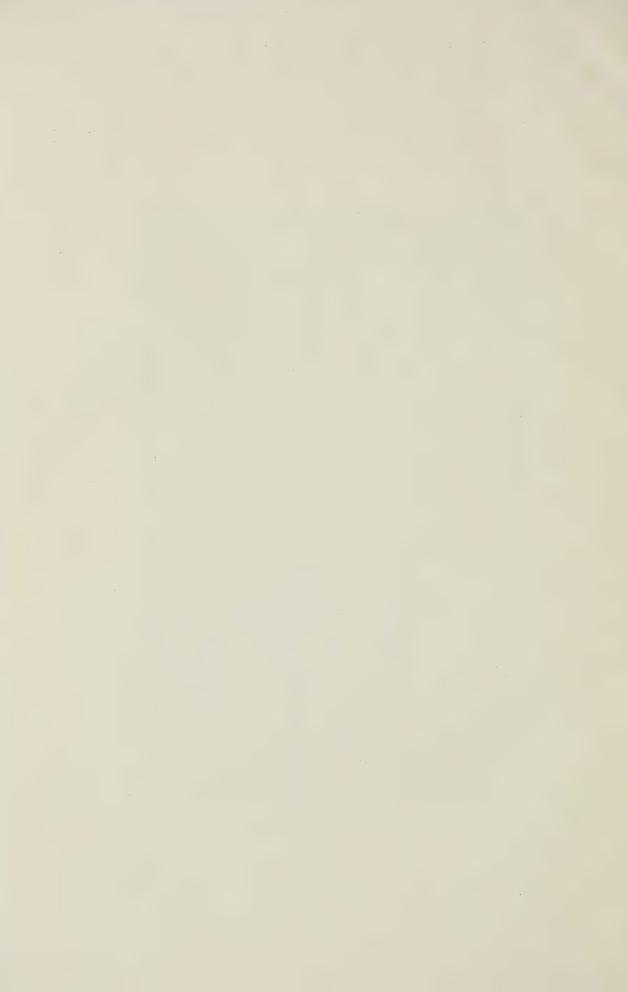
Distribution:—From the Altai Range and the Mountains of Turkestan to Siberia; the Caspian province of Persia; in winter migrating to Manchuria and Corea.

Record Head:—Length 15 in. Circumference 4.75 in.

Cf. Scientific Results Second Yarkand Mission, 1878—91; and Lydekker, Deer of all Lands, p. 227.



Capreolus pygargus, $\frac{1}{4}$ th scale.



RECORDS

OF THE

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(A JOURNAL OF INDIAN ZOOLOGY)

Vol. I, 1907.

- Part I.—Contributions to the Fauna of the Arabian Sea. Records of Hemiptera and Hymenoptera from the Himalayas. Further Notes on Indian Freshwater Entomostraca. The Fauna of Brackish Ponds at Port Canning, Lower Bengal, I.—III. A Sporozoon from the Heart of a Cow. Miscellanea.
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- Part III.—Report on the Marine Polyzoa in the collection of the Indian Museum. The Fauna of Brackish Ponds at Port Canning, Lower Bengal, VI. A third Note on Earwigs (Dermaptera) in the Indian Museum, with the description of a new species. Notes on Oriental Diptera, III. Description of a new Snake from Nepal. Notes on a collection of marketable Fish from Akyab, with a description of a new species of Lactarius. Description of two Freshwater Oligochæte Worms from the Punjab. Notes on Phosphorescence in Marine Animals. Notes on the Rats of Dacca, Eastern Bengal. Notes on Freshwater Sponges, I—V. Miscellanea.
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- Part IV.—Report on a collection of Aquatic Animals made in Tibet by Capt. F. H. Stewart, I.M.s., in 1907, I. Notes on Aculeate Hymenoptera in the Indian Museum, I. Indian Psychodidae. Description of a new species of Mouse from the Madura District, Madras. Some Cleridae of the Indian Museum. The Fauna of Brackish Ponds at Port Canning, Lower Bengal, XII. Description of a new species of Saw-Fish captured off the Burma Coast. A new Sting Ray of the genus Trygon from the Bay of Bengal. New Microlepidoptera from India and Burma. Notes on some Chrysomelid Beetles in the collection of the Indian Museum. Six new Cicindelinae from the Oriental Region. Description of a new Slug from Tibet.
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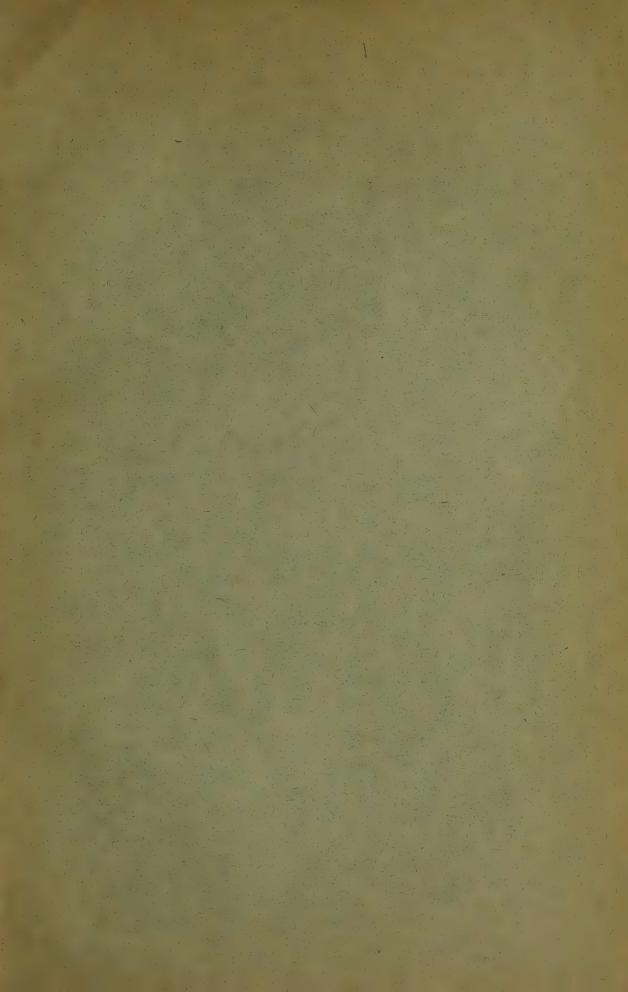
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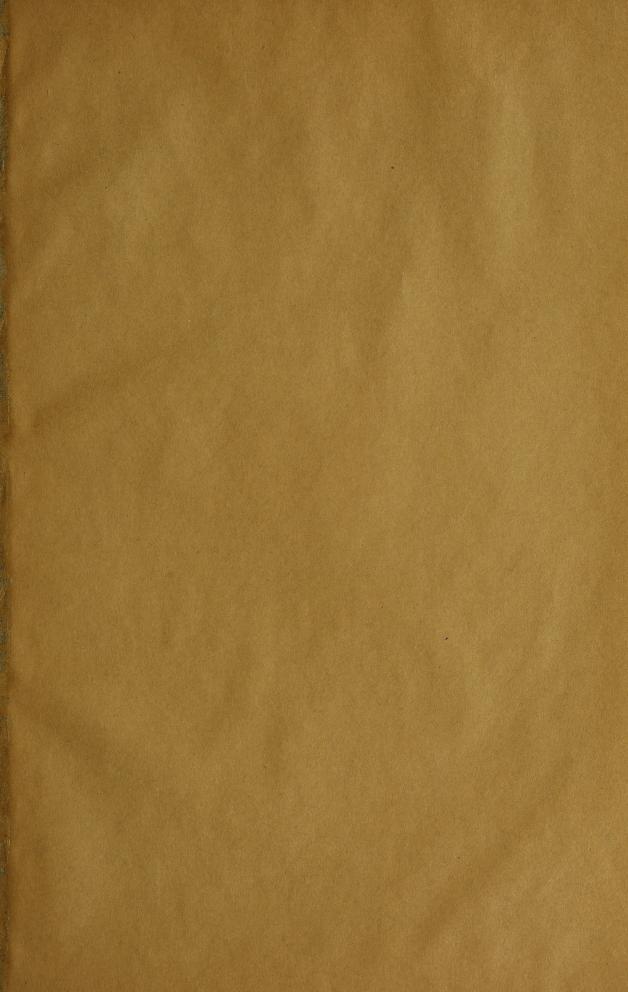
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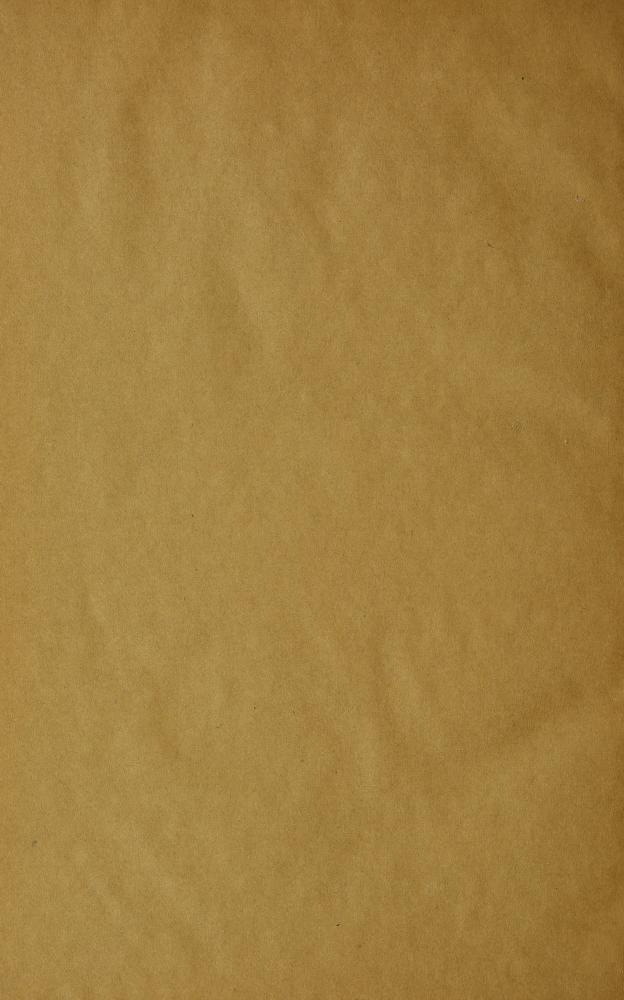
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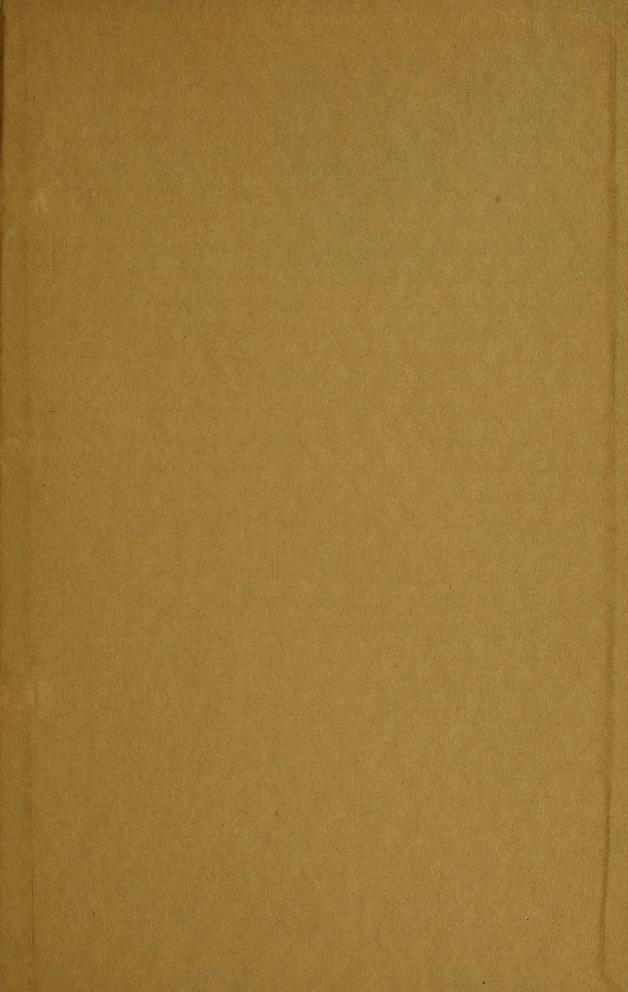
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